



# SAFETY DATA SHEET

## Section 1: Identification of the substance/mixture and of the company/undertaking

### Product identifier

Trade name or designation of the mixture Molyube Multipurpose Extreme Pressure Grease with Moly 00

Product code 40881

Registration number -

Synonyms Molyube AC 1000 00

Date of first issue 14-May-2011

Version number 1,1

Revision date 20-December-2011

Supersedes date 03-November-2011

### Relevant identified uses of the substance or mixture and uses advised against

Identified uses Not available.

Uses advised against None known.

### Details of the supplier of the safety data sheet

Bel-Ray Company, Inc.  
Bel-Ray Europe S.A.  
Avenue Louise, 304  
P.O. Box 526  
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Bruxelles-Brussel, B-1050  
Belgium  
United States of America  
+1 732 938 2421  
+32 (0) 2 540 84 52  
Europe: +32 (0) 2 201 18 87  
CHEMTREC: 800-424-9300 (USA)  
CHEMTREC: +1 703-527-3887 (outside USA - call collect)  
Europe Emergency: 112

## Section 2: Hazards identification

### Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification Xn;R20/22

The full text for all R-phrases is displayed in section 16.

### Classification according to Regulation (EC) No 1272/2008 as amended

#### Health hazards

Acute toxicity, oral Category 4 (% of the mixture consists of ingredient(s) of unknown toxicity.) Harmful if swallowed.

Acute toxicity, inhalation Category 4 (% of the mixture consists of ingredient(s) of unknown toxicity.) Harmful if inhaled.

### Hazard summary

**Physical hazards** Not classified for physical hazards.

**Health hazards** Harmful by inhalation and if swallowed. Occupational exposure to the substance or mixture may cause adverse health effects.

**Environmental hazards** Not classified for hazards to the environment.

**Specific hazards** Not available.

**Main symptoms** Not available.

**Label elements**

**Label according to Regulation (EC) No. 1272/2008 as amended**

**Contains:** Antimony Tris[o,o-dipropyl] Tris(dithiophosphate)



**Signal word** Warning

**Hazard statements** Harmful if swallowed. Harmful if inhaled.

**Precautionary statements**

**Prevention** Avoid breathing vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

**Response** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Storage** Not available.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information** Not applicable.

**Other hazards** Not assigned.

### Section 3: Composition/information on ingredients

#### Mixture

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Distillates (petroleum), hydrotreated heavy naphthenic	0 - < 100	64742-52-5 265-155-0	-	649-465-00-7	#
<b>Classification:</b>					
<b>DSD:</b>	-				
<b>CLP:</b>	-				
Distillates (petroleum), hydrotreated heavy paraffinic	0 - < 100	64742-54-7 265-157-1	-	649-467-00-8	#
<b>Classification:</b>					
<b>DSD:</b>	-				
<b>CLP:</b>	-				
Distillates (petroleum), solvent-refined heavy paraffinic	0 - < 100	64741-88-4 265-090-8	-	649-454-00-7	#
<b>Classification:</b>					
<b>DSD:</b>	-				
<b>CLP:</b>	-				
Lubricating Oils (petroleum), Hydrotreated Spent	0 < 100	64742-58-1 265-161-3	-	-	#
<b>Classification:</b>					
<b>DSD:</b>	-				
<b>CLP:</b>	-				
Residual Oils (petroleum), Solvent-refined	0 - < 100	64742-01-4 265-101-6	-	649-459-00-4	#
<b>Classification:</b>					
<b>DSD:</b>	-				
<b>CLP:</b>	-				

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
White mineral oil (petroleum)	0 - < 100	8042-47-5 232-455-8	-	-	#
<b>Classification:</b>	<b>DSD:</b> -				
	<b>CLP:</b> -				
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o)-	3 - < 5	54326-11-3 259-105-7	-	-	#
<b>Classification:</b>	<b>DSD:</b> -				
	<b>CLP:</b> -				
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate)	1 - < 3	15874-48-3 240-001-5	-	051-003-00-9	#
<b>Classification:</b>	<b>DSD:</b> Xn;R20/22, N;R51/53				
	<b>CLP:</b> Acute Tox. 4;H302, Acute Tox. 4;H332, Aquatic Chronic 2;H411				
Molybdenum Disulfide	< 0,3	1317-33-5 215-263-9	-	-	
<b>Classification:</b>	<b>DSD:</b> -				
	<b>CLP:</b> -				
Carbon black	< 0,2	1333-86-4 215-609-9	-	-	
<b>Classification:</b>	<b>DSD:</b> -				
	<b>CLP:</b> -				
Other components below reportable levels	1 - < 3				
CLP: Regulation No. 1272/2008.					
DSD: Directive 67/548/EEC.					
#: This substance has workplace exposure limit(s).					
PBT: persistent, bioaccumulative and toxic substance.					
vPvB: very persistent and very bioaccumulative substance.					

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.

## Section 4: First aid measures

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### Description of first aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin contact** Rinse skin with water/shower. Get medical attention if irritation develops and persists.

**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do not induce vomiting. Never give liquid to an unconscious person.

**Most important symptoms and effects, both acute and delayed** Not available.

**Indication of any immediate medical attention and special treatment needed** In case of shortness of breath, give oxygen. Keep victim warm. Symptoms may be delayed.

## Section 5: Firefighting measures

**General fire hazards** Not available.

## Extinguishing media

**Suitable extinguishing media** Water fog. Foam. Dry powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Water. Do not use water jet as an extinguisher, as this will spread the fire.

**Special hazards arising from the substance or mixture** Not available.

## Advice for firefighters

**Special protective equipment for firefighters** Wear suitable protective equipment.

**Special firefighting procedures** Not available.

## Section 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Fully encapsulating, vapour protective clothing should be worn for spills and leaks with no fire. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them.

**For emergency responders** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up** Remove sources of ignition. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

**Reference to other sections** For personal protection, see section 8. For waste disposal, see section 13.

## Section 7: Handling and storage

**Precautions for safe handling** Do not taste or swallow. Avoid breathing vapour. Use only outdoors or in a well-ventilated area. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Hydrogen sulphide (H<sub>2</sub>S) may be given off when this material is heated. Do not depend on sense of smell for warning.

**Conditions for safe storage, including any incompatibilities** Store in a well-ventilated place. Keep container tightly closed. Keep out of the reach of children.

**Specific end use(s)** Not available.

## Section 8: Exposure controls/personal protection

### Control parameters

### Occupational exposure limits

#### Austria. MAK List Components

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	MAK	0,5 mg/m <sup>3</sup>	Inhalable fraction.

	STEL	1,5 mg/m <sup>3</sup>	Inhalable fraction.
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#### Belgium. Exposure Limit Values. Components

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	

Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m <sup>3</sup>	Mist.
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	TWA	5 mg/m <sup>3</sup>	Mist.
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**Belgium. Exposure Limit Values.**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum ), Hydrotreated Spent (64742-58-1)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
White mineral oil (petroleum ) (8042-47-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

**Bulgaria. OELs. Regulation No 13 of Ministry of Labor & Social Policy, with Ministry of Health, on protection of workers related to exposure to chemical agents at work**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3
Lubricating Oils (petroleum ), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m3
White mineral oil (petroleum ) (8042-47-5)	TWA	5 mg/m3

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	Ceiling	1,5 mg/m3	
	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	Ceiling	1000 mg/m3	
	TWA	200 mg/m3	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	Ceiling	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
Lubricating Oils (petroleum ), Hydrotreated Spent (64742-58-1)	Ceiling	10 mg/m3	Aerosol

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value	Form
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m <sup>3</sup>	Aerosol
	Ceiling	10 mg/m <sup>3</sup>	Aerosol
White mineral oil (petroleum ) (8042-47-5)	TWA	5 mg/m <sup>3</sup>	Aerosol
	Ceiling	10 mg/m <sup>3</sup>	Aerosol
TWA	5 mg/m <sup>3</sup>	Aerosol	

**Denmark. Exposure Limit Values**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TLV	0,5 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TLV	1 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TLV	1 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TLV	1 mg/m <sup>3</sup>	Mist.
Lubricating Oils (petroleum ) , Hydrotreated Spent (64742-58-1)	TLV	1 mg/m <sup>3</sup>	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TLV	1 mg/m <sup>3</sup>	Mist.
White mineral oil (petroleum ) (8042-47-5)	TLV	1 mg/m <sup>3</sup>	Mist.

**Estonia. OELs. Occupational Exposure Limit Values for Hazardous Substances (Minister of Social Affairs Regulation No. 57)**

Components	Type	Value
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (54326-11-3)	TWA	2 mg/m <sup>3</sup>

**Finland. Workplace Exposure Limits**

Components	Type	Value	Form
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (54326-11-3)	TWA	2 mg/m <sup>3</sup>	
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m <sup>3</sup>	Mist.
Lubricating Oils (petroleum ) , Hydrotreated Spent (64742-58-1)	TWA	5 mg/m <sup>3</sup>	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m <sup>3</sup>	Mist.

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	VME	0,5 mg/m <sup>3</sup>

**Germany**

No exposure limits noted for the ingredient(s).

**Germany - TRGS 900**

No exposure limits noted for the ingredient(s).

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Mist.

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	STEL	2 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA Ceiling	0,5 mg/m3 5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	Ceiling	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	Ceiling	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	Ceiling	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	Ceiling	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	Ceiling	5 mg/m3	Mist.

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value	Form
Aluminum, (benzoato-o,o)hydroxy(octadecanoato-o,o)- (54326-11-3)	TWA	2 mg/m3	
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	Dust.
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	1 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	1 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	1 mg/m3	Mist.

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value	Form
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	1 mg/m <sup>3</sup>	Mist.
White mineral oil (petroleum ) (8042-47-5)	TWA	1 mg/m <sup>3</sup>	Mist.

**Ireland. Occupational Exposure Limits**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	0,2 mg/m <sup>3</sup>	Inhalable fraction.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	0,2 mg/m <sup>3</sup>	Inhalable fraction.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	0,2 mg/m <sup>3</sup>	Inhalable fraction.
Lubricating Oils (petroleum ), Hydrotreated Spent (64742-58-1)	TWA	0,2 mg/m <sup>3</sup>	Inhalable fraction.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	0,2 mg/m <sup>3</sup>	Inhalable fraction.
White mineral oil (petroleum ) (8042-47-5)	TWA	0,2 mg/m <sup>3</sup>	Inhalable fraction.

**Italy. OELs**

Components	Type	Value	Form
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (54326-11-3)	TWA	1 mg/m <sup>3</sup>	Respirable fraction.
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.
White mineral oil (petroleum ) (8042-47-5)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.

**Latvia**

No exposure limits noted for the ingredient(s).

**Lithuania. OELs. Occupational Exposure Limit Values for Hazardous Chemical Substance Concentration, General Requirements (No. 645/169)**

Components	Type	Value	Form
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (54326-11-3)	TWA	1 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	3 mg/m <sup>3</sup>	Fume and mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	1 mg/m <sup>3</sup>	Fume and mist.
	STEL	3 mg/m <sup>3</sup>	Fume and mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	1 mg/m <sup>3</sup>	Fume and mist.
	STEL	3 mg/m <sup>3</sup>	Fume and mist.
	TWA	1 mg/m <sup>3</sup>	Fume and mist.



**Lithuania. OELs. Occupational Exposure Limit Values for Hazardous Chemical Substance Concentration, General Requirements (No. 645/169)**

Components	Type	Value	Form
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	STEL	3 mg/m3	Fume and mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	1 mg/m3	Fume and mist.
	STEL	3 mg/m3	Fume and mist.
White mineral oil (petroleum) (8042-47-5)	TWA	1 mg/m3	Fume and mist.
	STEL	3 mg/m3	Fume and mist.

**Luxembourg**

No exposure limits noted for the ingredient(s).

**Malta**

No exposure limits noted for the ingredient(s).

**Netherlands. OELs (binding)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Mist.

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TLV	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TLV	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TLV	1 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TLV	1 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TLV	1 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TLV	1 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TLV	1 mg/m3	Mist.

**Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m <sup>3</sup>	Aerosol
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
	TWA	5 mg/m <sup>3</sup>	Aerosol

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m <sup>3</sup>	Aerosol
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
	TWA	5 mg/m <sup>3</sup>	Aerosol

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m <sup>3</sup>	
	STEL	10 mg/m <sup>3</sup>	
	TWA	5 mg/m <sup>3</sup>	

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	10 mg/m3
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3
	STEL	10 mg/m3
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m3
	STEL	10 mg/m3
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3
	STEL	10 mg/m3
	TWA	5 mg/m3

**Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	Ceiling	1 mg/m3	Total dust.
White mineral oil (petroleum) (8042-47-5)	TWA	0,5 mg/m3	Total dust.
	TWA	5 mg/m3	Aerosol

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	Inhalable fraction.

**Spain. Occupational Exposure Limits**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

**Sweden. Occupational Exposure Limit Values**

Components	Type	Value	Form
Aluminum, (benzoato-o,o)hydroxy(octadecanoato-o,o)- (54326-11-3)	TWA	1 mg/m3	Total dust.

**Sweden. Occupational Exposure Limit Values**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	3 mg/m <sup>3</sup>	Mist.
	TWA	1 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	STEL	3 mg/m <sup>3</sup>	Mist.
	TWA	1 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	3 mg/m <sup>3</sup>	Mist.
	TWA	1 mg/m <sup>3</sup>	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	STEL	3 mg/m <sup>3</sup>	Mist.
	TWA	1 mg/m <sup>3</sup>	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	3 mg/m <sup>3</sup>	Mist.
	TWA	1 mg/m <sup>3</sup>	Mist.
White mineral oil (petroleum) (8042-47-5)	STEL	3 mg/m <sup>3</sup>	Mist.
	TWA	1 mg/m <sup>3</sup>	Mist.

**Switzerland**

No exposure limits noted for the ingredient(s).

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>

**EU, 91/322/EEC, 2000/39/EC, 2006/15/EC**

No exposure limits noted for the ingredient(s).

**Biological limit values****EU, 91/322/EEC, 2000/39/EC, 2006/15/EC**

No biological exposure limits noted for the ingredient(s).

**Finland**

No biological exposure limits noted for the ingredient(s).

**France**

No biological exposure limits noted for the ingredient(s).

**Luxembourg**

No biological exposure limits noted for the ingredient(s).

**Spain**

No biological exposure limits noted for the ingredient(s).

**United Kingdom**

No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**DNEL** Not available.

**PNEC** Not available.

**Exposure controls**

**Appropriate engineering controls** Provide adequate general and local exhaust ventilation.

**Individual protection measures, such as personal protective equipment**

**General information** Not available.

**Eye/face protection** Not normally needed.

**Skin protection**

**- Hand protection** Not normally needed.

**- Other** Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Thermal hazards</b>	Not available.
<b>Hygiene measures</b>	When using, do not eat, drink or smoke. Wash hands after handling and before eating. Handle in accordance with good industrial hygiene and safety practices.
<b>Environmental exposure controls</b>	Not available.

## Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

<b>Appearance</b>	Oily.
<b>Physical state</b>	Liquid.
<b>Form</b>	Grease
<b>Colour</b>	Black.
<b>Odour</b>	Petroleum
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	Not available.
<b>Boiling point, initial boiling point, and boiling range</b>	360 °C (680 °F) estimated
<b>Flash point</b>	214 °C (417,2 °F) Pensky-Martens Closed Cup (Base Oil)
<b>Auto-ignition temperature</b>	260 °C (500 °F) estimated
<b>Flammability (solid, gas)</b>	Not available.
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Oxidising properties</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.
<b>Explosive limit</b>	Not applicable.
<b>Vapour pressure</b>	0 hPa estimated
<b>Density</b>	893 kg/m <sup>3</sup>
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Negligible
<b>Solubility (other)</b>	Oil

### Information on basic physical and chemical properties

<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Bulk density</b>	Not applicable.
<b>Pour point</b>	Not applicable.
<b>Viscosity</b>	150 cSt
<b>Viscosity temperature</b>	40 °C (104 °F) ASTM D445
<b>VOC (Weight %)</b>	0,04 % estimated
<b>Percent volatile</b>	0,04 % estimated
<b>Other data</b>	
<b>Drop point</b>	244 °C (471,2 °F)
<b>Flammability class</b>	Combustible IIIIB estimated
<b>Specific gravity</b>	0,89
<b>Other information</b>	No relevant additional information available.

## Section 10: Stability and reactivity

<b>Reactivity</b>	None known. Strong oxidizing agents.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Not available.
<b>Conditions to avoid</b>	Avoid temperatures exceeding the flash point.
<b>Incompatible materials</b>	None known.
<b>Hazardous decomposition products</b>	No dangerous reaction known under conditions of normal use. At thermal decomposition temperatures, carbon monoxide and carbon dioxide. Hydrogen sulfide. Mercaptans.

## Section 11: Toxicological information

<b>General information</b>	Not available.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	Harmful if inhaled.
<b>Skin contact</b>	Not available.
<b>Eye contact</b>	Not available.
<b>Symptoms</b>	Not available.
<b>Information on toxicological effects</b>	
<b>Acute toxicity</b>	Harmful if inhaled. Harmful if swallowed.
<b>Skin corrosion/irritation</b>	Not available.
<b>Serious eye damage/eye irritation</b>	Not available.
<b>Respiratory sensitisation</b>	Not available.
<b>Skin sensitisation</b>	Not available.
<b>Germ cell mutagenicity</b>	Not available.
<b>Carcinogenicity</b>	Not available.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
MINERAL OILS, HIGHLY-REFINED (CAS 8042-47-5)	3 Not classifiable as to carcinogenicity to humans.
<b>Reproductive toxicity</b>	Not available.
<b>Specific target organ toxicity - single exposure</b>	Not available.
<b>Specific target organ toxicity - repeated exposure</b>	Not available.
<b>Aspiration hazard</b>	Not available.
<b>Mixture versus substance information</b>	Not available.
<b>Other information</b>	Not available.

## Section 12: Ecological information

### Toxicity

<b>Product</b>	<b>Test results</b>
Molyube Multipurpose Extreme Pressure Grease with Moly 00 (Mixture)	EC50 Daphnia: 36222,22 mg/l 48 hours estimated LC50 Fish: 68326,02 mg/l 96 hours estimated

\* Estimates for product may be based on additional component data not shown.

<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulative potential</b>	Not available.
<b>Mobility</b>	Not available.
<b>Environmental fate - Partition coefficient</b>	Not available.
<b>Mobility in soil</b>	Not available.

<b>Results of PBT and vPvB assessment</b>	Not available.
<b>Other adverse effects</b>	Not available.

## Section 13: Disposal considerations

### Waste treatment methods

<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

## Section 14: Transport information

### ADR

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

### ADN

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information available.

## Section 15: Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

**Other regulations** The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

**National regulations** Not available.

**Chemical safety assessment** No Chemical Safety Assessment has been carried out.

## Section 16: Other information

**List of abbreviations** Not available.

**References** Not available.

**Information on evaluation method leading to the classification of mixture** Not available.

**Full text of any statements or R-phrases and H-phrases under Sections 2 to 15** R20/22 Harmful by inhalation and if swallowed.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
H302 - Harmful if swallowed.  
H332 - Harmful if inhaled.  
H411 - Toxic to aquatic life with long lasting effects.

**Revision information** IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING:  
IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Training information** Not available.

**Disclaimer**

Bel-Ray Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

**Issue date**

20-December-2011

**Revision date**

20-December-2011

**Print date**

20-December-2011





# SAFETY DATA SHEET

## Section 1: Identification of the substance/mixture and of the company/undertaking

### Product identifier

**Trade name or designation of the mixture** Molyube Multipurpose Extreme Pressure Grease with Moly 0

**Product code** 40890

**Registration number** -

**Synonyms** Molyube AC 1000 0

**Date of first issue** 14-May-2011

**Version number** 1,1

**Revision date** 13-December-2011

**Supersedes date** 03-November-2011

### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Not available.

**Uses advised against** None known.

### Details of the supplier of the safety data sheet

Bel-Ray Company, Inc.  
Bel-Ray Europe S.A.  
Avenue Louise, 304  
P.O. Box 526  
Farmingdale, NJ 07727  
Bruxelles-Brussel, B-1050  
Belgium  
United States of America  
+1 732 938 2421  
+32 (0) 2 540 84 52  
Europe: +32 (0) 2 201 18 87  
CHEMTREC: 800-424-9300 (USA)  
CHEMTREC: +1 703-527-3887 (outside USA - call collect)  
Europe Emergency: 112

## Section 2: Hazards identification

### Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

**Classification** Xn;R20/22

The full text for all R-phrases is displayed in section 16.

### Classification according to Regulation (EC) No 1272/2008 as amended

#### Health hazards

Acute toxicity, oral	Category 4 (% of the mixture consists of ingredient(s) of unknown toxicity.)	Harmful if swallowed.
Acute toxicity, inhalation	Category 4 (% of the mixture consists of ingredient(s) of unknown toxicity.)	Harmful if inhaled.

### Hazard summary

**Physical hazards** Not classified for physical hazards.

**Health hazards** Harmful by inhalation and if swallowed. Occupational exposure to the substance or mixture may cause adverse health effects.

**Environmental hazards** Not classified for hazards to the environment.

**Specific hazards** Not available.

**Main symptoms** Not available.

**Label elements**

**Label according to Regulation (EC) No. 1272/2008 as amended**

**Contains:** Antimony Tris[o,o-dipropyl] Tris(dithiophosphate)



**Signal word** Warning

**Hazard statements** Harmful if swallowed. Harmful if inhaled.

**Precautionary statements**

**Prevention** Avoid breathing vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

**Response** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Storage** Not available.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information** Not applicable.

**Other hazards** Not assigned.

**Section 3: Composition/information on ingredients**

**Mixture**

**General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
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Distillates (petroleum), hydrotreated heavy naphthenic	0 - < 100	64742-52-5 265-155-0	-	649-465-00-7	#
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**Classification:** **DSD:** -  
**CLP:** -

Distillates (petroleum), hydrotreated heavy paraffinic	0 - < 100	64742-54-7 265-157-1	-	649-467-00-8	#
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**Classification:** **DSD:** -  
**CLP:** -

Distillates (petroleum), solvent-refined heavy paraffinic	0 - < 100	64741-88-4 265-090-8	-	649-454-00-7	#
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**Classification:** **DSD:** -  
**CLP:** -

Lubricating Oils (petroleum), Hydrotreated Spent	0 < 100	64742-58-1 265-161-3	-	-	#
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**Classification:** **DSD:** -  
**CLP:** -

White mineral oil (petroleum)	0 - < 100	8042-47-5 232-455-8	-	-	#
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**Classification:** **DSD:** -  
**CLP:** -

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- <b>Classification:</b>	5 - < 10	54326-11-3 259-105-7	-	-	#
<b>DSD:</b>	-				
<b>CLP:</b>	-				
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) <b>Classification:</b>	1 - < 3	15874-48-3 240-001-5	-	051-003-00-9	#
<b>DSD:</b>	Xn;R20/22, N;R51/53				
<b>CLP:</b>	Acute Tox. 4;H302, Acute Tox. 4;H332, Aquatic Chronic 2;H411				
Molybdenum Disulfide <b>Classification:</b>	< 0,3	1317-33-5 215-263-9	-	-	
<b>DSD:</b>	-				
<b>CLP:</b>	-				
Carbon black <b>Classification:</b>	< 0,2	1333-86-4 215-609-9	-	-	
<b>DSD:</b>	-				
<b>CLP:</b>	-				

Other components below reportable levels 1 - < 3

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

#: This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.

## Section 4: First aid measures

### General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### Description of first aid measures

#### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician if you feel unwell.

#### Skin contact

Rinse skin with water/shower. Get medical attention if irritation develops and persists.

#### Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do not induce vomiting. Never give liquid to an unconscious person.

### Most important symptoms and effects, both acute and delayed

Not available.

### Indication of any immediate medical attention and special treatment needed

In case of shortness of breath, give oxygen. Keep victim warm. Symptoms may be delayed.

## Section 5: Firefighting measures

### General fire hazards

Not available.

### Extinguishing media

#### Suitable extinguishing media

Water fog. Foam. Dry powder. Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media

Water. Do not use water jet as an extinguisher, as this will spread the fire.

**Special hazards arising from the substance or mixture** Not available.

**Advice for firefighters**

**Special protective equipment for firefighters** Wear suitable protective equipment.

**Special firefighting procedures** Not available.

**Section 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel** Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Fully encapsulating, vapour protective clothing should be worn for spills and leaks with no fire. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them.

**For emergency responders** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up** Remove sources of ignition. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

**Reference to other sections** For personal protection, see section 8. For waste disposal, see section 13.

**Section 7: Handling and storage**

**Precautions for safe handling** Do not taste or swallow. Avoid breathing vapour. Use only outdoors or in a well-ventilated area. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Hydrogen sulphide (H2S) may be given off when this material is heated. Do not depend on sense of smell for warning.

**Conditions for safe storage, including any incompatibilities** Store in a well-ventilated place. Keep container tightly closed. Keep out of the reach of children.

**Specific end use(s)** Not available.

**Section 8: Exposure controls/personal protection**

**Control parameters**

**Occupational exposure limits**

<b>Austria. MAK List Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	MAK	0,5 mg/m3	Inhalable fraction.
	STEL	1,5 mg/m3	Inhalable fraction.
<b>Belgium. Exposure Limit Values. Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

**Belgium. Exposure Limit Values.**

Components	Type	Value	Form
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	10 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Mist.
	STEL	10 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Mist.
	STEL	10 mg/m3	Mist.

**Bulgaria. OELs. Regulation No 13 of Ministry of Labor & Social Policy, with Ministry of Health, on protection of workers related to exposure to chemical agents at work**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	Ceiling	1,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	0,5 mg/m3	
	Ceiling	1000 mg/m3	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	200 mg/m3	
	Ceiling	10 mg/m3	Aerosol
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Aerosol
	Ceiling	10 mg/m3	Aerosol
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Aerosol
	Ceiling	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

**Denmark. Exposure Limit Values**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TLV	0,5 mg/m3	

**Denmark. Exposure Limit Values**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TLV	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TLV	1 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TLV	1 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TLV	1 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TLV	1 mg/m3	Mist.

**Estonia. OELs. Occupational Exposure Limit Values for Hazardous Substances (Minister of Social Affairs Regulation No. 57)**

Components	Type	Value
Aluminum, (benzoato-o,o)hydroxy(octadecanoato-o,o)- (54326-11-3)	TWA	2 mg/m3

**Finland. Workplace Exposure Limits**

Components	Type	Value	Form
Aluminum, (benzoato-o,o)hydroxy(octadecanoato-o,o)- (54326-11-3)	TWA	2 mg/m3	
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Mist.

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	VME	0,5 mg/m3

**Germany**

No exposure limits noted for the ingredient(s).

**Germany - TRGS 900**

No exposure limits noted for the ingredient(s).

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Mist.

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value	Form
White mineral oil (petroleum ) (8042-47-5)	TWA	5 mg/m3	Mist.

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	STEL	2 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA Ceiling	0,5 mg/m3 5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	Ceiling	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	Ceiling	5 mg/m3	Mist.
Lubricating Oils (petroleum ), Hydrotreated Spent (64742-58-1)	Ceiling	5 mg/m3	Mist.
White mineral oil (petroleum ) (8042-47-5)	Ceiling	5 mg/m3	Mist.

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value	Form
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (54326-11-3)	TWA	2 mg/m3	
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	Dust.
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	1 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	1 mg/m3	Mist.
Lubricating Oils (petroleum ), Hydrotreated Spent (64742-58-1)	TWA	1 mg/m3	Mist.
White mineral oil (petroleum ) (8042-47-5)	TWA	1 mg/m3	Mist.

**Ireland. Occupational Exposure Limits**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	0,2 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	0,2 mg/m3	Inhalable fraction.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	0,2 mg/m3	Inhalable fraction.
Lubricating Oils (petroleum ), Hydrotreated Spent (64742-58-1)	TWA	0,2 mg/m3	Inhalable fraction.
White mineral oil (petroleum ) (8042-47-5)	TWA	0,2 mg/m3	Inhalable fraction.

**Italy. OELs**

Components	Type	Value	Form
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (54326-11-3)	TWA	1 mg/m3	Respirable fraction.
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Inhalable fraction.
White mineral oil (petroleum ) (8042-47-5)	TWA	5 mg/m3	Inhalable fraction.

**Latvia**

No exposure limits noted for the ingredient(s).

**Lithuania. OELs. Occupational Exposure Limit Values for Hazardous Chemical Substance Concentration, General Requirements (No. 645/169)**

Components	Type	Value	Form
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (54326-11-3)	TWA	1 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.
Lubricating Oils (petroleum ), Hydrotreated Spent (64742-58-1)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.
White mineral oil (petroleum ) (8042-47-5)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.

**Luxembourg**

No exposure limits noted for the ingredient(s).

**Malta**

No exposure limits noted for the ingredient(s).

**Netherlands. OELs (binding)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum ), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Mist.
White mineral oil (petroleum ) (8042-47-5)	TWA	5 mg/m3	Mist.



**Norway. Administrative Norms for Contaminants in the Workplace**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TLV	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TLV	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TLV	1 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TLV	1 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TLV	1 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TLV	1 mg/m3	Mist.

**Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m3	Aerosol
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m3	Aerosol
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value	Form
	TWA	5 mg/m <sup>3</sup>	Aerosol

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m <sup>3</sup>	
	STEL	10 mg/m <sup>3</sup>	
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m <sup>3</sup>	
	STEL	10 mg/m <sup>3</sup>	
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m <sup>3</sup>	
	STEL	10 mg/m <sup>3</sup>	
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m <sup>3</sup>	
	STEL	10 mg/m <sup>3</sup>	
	TWA	5 mg/m <sup>3</sup>	

**Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	Ceiling	1 mg/m <sup>3</sup>	Total dust.
White mineral oil (petroleum) (8042-47-5)	TWA	0,5 mg/m <sup>3</sup>	Total dust.
	TWA	5 mg/m <sup>3</sup>	Aerosol

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	Inhalable fraction.

**Spain. Occupational Exposure Limits**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.
White mineral oil (petroleum) (8042-47-5)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.

**Sweden. Occupational Exposure Limit Values**

Components	Type	Value	Form
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (54326-11-3)	TWA	1 mg/m3	Total dust.
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	3 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	1 mg/m3	Mist.
	STEL	3 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	1 mg/m3	Mist.
	STEL	3 mg/m3	Mist.
Lubricating Oils (petroleum ), Hydrotreated Spent (64742-58-1)	TWA	1 mg/m3	Mist.
	STEL	3 mg/m3	Mist.
White mineral oil (petroleum ) (8042-47-5)	TWA	1 mg/m3	Mist.
	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.

**Switzerland**

No exposure limits noted for the ingredient(s).

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3

**EU, 91/322/EEC, 2000/39/EC, 2006/15/EC**

No exposure limits noted for the ingredient(s).

**Biological limit values****EU, 91/322/EEC, 2000/39/EC, 2006/15/EC**

No biological exposure limits noted for the ingredient(s).

**Finland**

No biological exposure limits noted for the ingredient(s).

**France**

No biological exposure limits noted for the ingredient(s).

**Luxembourg**

No biological exposure limits noted for the ingredient(s).

**Spain**

No biological exposure limits noted for the ingredient(s).

**United Kingdom**

No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**DNEL** Not available.

**PNEC** Not available.

**Exposure controls**

**Appropriate engineering controls** Provide adequate general and local exhaust ventilation.

**Individual protection measures, such as personal protective equipment**

**General information** Not available.

**Eye/face protection** Not normally needed.

**Skin protection**

**- Hand protection** Not normally needed.

**- Other** Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Thermal hazards</b>	Not available.
<b>Hygiene measures</b>	When using, do not eat, drink or smoke. Wash hands after handling and before eating. Handle in accordance with good industrial hygiene and safety practices.
<b>Environmental exposure controls</b>	Not available.

## Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

<b>Appearance</b>	Oily.
<b>Physical state</b>	Liquid.
<b>Form</b>	Grease
<b>Colour</b>	Black.
<b>Odour</b>	Petroleum
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	Not available.
<b>Boiling point, initial boiling point, and boiling range</b>	360 °C (680 °F) estimated
<b>Flash point</b>	214 °C (417,2 °F) Pensky-Martens Closed Cup (Base Oil)
<b>Auto-ignition temperature</b>	260 °C (500 °F) estimated
<b>Flammability (solid, gas)</b>	Not available.
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Oxidising properties</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.
<b>Explosive limit</b>	Not applicable.
<b>Vapour pressure</b>	0 hPa estimated
<b>Density</b>	886 kg/m <sup>3</sup>
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Negligible
<b>Solubility (other)</b>	Oil

### Information on basic physical and chemical properties

<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Bulk density</b>	Not applicable.
<b>Pour point</b>	Not applicable.
<b>Viscosity</b>	150 cSt
<b>Viscosity temperature</b>	40 °C (104 °F) ASTM D445
<b>VOC (Weight %)</b>	0,04 % estimated
<b>Percent volatile</b>	0,04 % estimated
<b>Other data</b>	
<b>Drop point</b>	250 °C (482 °F)
<b>Flammability class</b>	Combustible III B estimated
<b>Specific gravity</b>	0,89
<b>Other information</b>	No relevant additional information available.

## Section 10: Stability and reactivity

<b>Reactivity</b>	None known. Strong oxidizing agents.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Not available.
<b>Conditions to avoid</b>	Avoid temperatures exceeding the flash point.
<b>Incompatible materials</b>	None known.
<b>Hazardous decomposition products</b>	No dangerous reaction known under conditions of normal use. At thermal decomposition temperatures, carbon monoxide and carbon dioxide. Hydrogen sulfide. Mercaptans.

## Section 11: Toxicological information

<b>General information</b>	Not available.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	Harmful if inhaled.
<b>Skin contact</b>	Not available.
<b>Eye contact</b>	Not available.
<b>Symptoms</b>	Not available.
<b>Information on toxicological effects</b>	
<b>Acute toxicity</b>	Harmful if inhaled. Harmful if swallowed.
<b>Skin corrosion/irritation</b>	Not available.
<b>Serious eye damage/eye irritation</b>	Not available.
<b>Respiratory sensitisation</b>	Not available.
<b>Skin sensitisation</b>	Not available.
<b>Germ cell mutagenicity</b>	Not available.
<b>Carcinogenicity</b>	Not available.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
MINERAL OILS, HIGHLY-REFINED (CAS 8042-47-5)	3 Not classifiable as to carcinogenicity to humans.
<b>Reproductive toxicity</b>	Not available.
<b>Specific target organ toxicity - single exposure</b>	Not available.
<b>Specific target organ toxicity - repeated exposure</b>	Not available.
<b>Aspiration hazard</b>	Not available.
<b>Mixture versus substance information</b>	Not available.
<b>Other information</b>	Not available.

## Section 12: Ecological information

### Toxicity

<b>Product</b>	<b>Test results</b>
Molyube Multipurpose Extreme Pressure Grease with Moly 0 (Mixture)	EC50 Daphnia: 36222,22 mg/l 48 hours estimated LC50 Fish: 68326,02 mg/l 96 hours estimated

\* Estimates for product may be based on additional component data not shown.

<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulative potential</b>	Not available.
<b>Mobility</b>	Not available.
<b>Environmental fate - Partition coefficient</b>	Not available.
<b>Mobility in soil</b>	Not available.

<b>Results of PBT and vPvB assessment</b>	Not available.
<b>Other adverse effects</b>	Not available.

## Section 13: Disposal considerations

### Waste treatment methods

<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

## Section 14: Transport information

### ADR

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

### ADN

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information available.

## Section 15: Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

**Other regulations** The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

**National regulations** Not available.

**Chemical safety assessment** No Chemical Safety Assessment has been carried out.

## Section 16: Other information

**List of abbreviations** Not available.

**References** Not available.

**Information on evaluation method leading to the classification of mixture** Not available.

**Full text of any statements or R-phrases and H-phrases under Sections 2 to 15** R20/22 Harmful by inhalation and if swallowed.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
H302 - Harmful if swallowed.  
H332 - Harmful if inhaled.  
H411 - Toxic to aquatic life with long lasting effects.

**Revision information** IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING:  
IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Training information** Not available.

**Disclaimer**

Bel-Ray Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

**Issue date**

13-December-2011

**Revision date**

13-December-2011

**Print date**

13-December-2011



# SAFETY DATA SHEET

## Section 1: Identification of the substance/mixture and of the company/undertaking

### Product identifier

**Trade name or designation of the mixture** Molyube Multipurpose Extreme Pressure Grease with Moly 46-0

**Product code** 40880

**Registration number** -

**Synonyms** Molyube AC 1000 0X

**Date of first issue** 14-May-2011

**Version number** 1,1

**Revision date** 13-December-2011

**Supersedes date** 03-November-2011

### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Not available.

**Uses advised against** None known.

### Details of the supplier of the safety data sheet

Bel-Ray Company, Inc.  
Bel-Ray Europe S.A.  
Avenue Louise, 304  
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+32 (0) 2 540 84 52  
Europe: +32 (0) 2 201 18 87  
CHEMTREC: 800-424-9300 (USA)  
CHEMTREC: +1 703-527-3887 (outside USA - call collect)  
Europe Emergency: 112

## Section 2: Hazards identification

### Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

**Classification** Xn;R20/22

The full text for all R-phrases is displayed in section 16.

### Classification according to Regulation (EC) No 1272/2008 as amended

#### Health hazards

Acute toxicity, oral	Category 4 (% of the mixture consists of ingredient(s) of unknown toxicity.)	Harmful if swallowed.
Acute toxicity, inhalation	Category 4 (% of the mixture consists of ingredient(s) of unknown toxicity.)	Harmful if inhaled.

### Hazard summary

**Physical hazards** Not classified for physical hazards.

**Health hazards** Harmful by inhalation and if swallowed. Occupational exposure to the substance or mixture may cause adverse health effects.

**Environmental hazards** Not classified for hazards to the environment.

**Specific hazards** Not available.



**Main symptoms** Not available.

**Label elements**

**Label according to Regulation (EC) No. 1272/2008 as amended**

**Contains:** Antimony Tris[o,o-dipropyl] Tris(dithiophosphate)



**Signal word** Warning

**Hazard statements** Harmful if swallowed. Harmful if inhaled.

**Precautionary statements**

**Prevention** Avoid breathing vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

**Response** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Storage** Not available.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information** Not applicable.

**Other hazards** Not assigned.

### Section 3: Composition/information on ingredients

#### Mixture

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Distillates (petroleum), hydrotreated heavy naphthenic <b>Classification:</b> <b>DSD:</b> - <b>CLP:</b> -	0 - < 100	64742-52-5 265-155-0	-	649-465-00-7	#
Distillates (petroleum), hydrotreated light naphthenic <b>Classification:</b> <b>DSD:</b> - <b>CLP:</b> -	0 - < 100	64742-53-6 265-156-6	-	649-466-00-2	#
Distillates (petroleum), hydrotreated light paraffinic <b>Classification:</b> <b>DSD:</b> - <b>CLP:</b> -	0 - < 100	64742-55-8 265-158-7	-	649-468-00-3	#
Distillates (petroleum), solvent-refined heavy paraffinic <b>Classification:</b> <b>DSD:</b> - <b>CLP:</b> -	0 - < 100	64741-88-4 265-090-8	-	649-454-00-7	#
Lubricating Oils (petroleum), Hydrotreated Spent <b>Classification:</b> <b>DSD:</b> - <b>CLP:</b> -	0 < 100	64742-58-1 265-161-3	-	-	#

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
White mineral oil (petroleum)	0 < 100	8042-47-5 232-455-8	-	-	#
<b>Classification:</b>	<b>DSD:</b> -				
	<b>CLP:</b> -				
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate)	1 - < 3	15874-48-3 240-001-5	-	051-003-00-9	#
<b>Classification:</b>	<b>DSD:</b> Xn;R20/22, N;R51/53				
	<b>CLP:</b> Acute Tox. 4;H302, Acute Tox. 4;H332, Aquatic Chronic 2;H411				
Molybdenum Disulfide	< 0,3	1317-33-5 215-263-9	-	-	
<b>Classification:</b>	<b>DSD:</b> -				
	<b>CLP:</b> -				
Carbon black	< 0,2	1333-86-4 215-609-9	-	-	
<b>Classification:</b>	<b>DSD:</b> -				
	<b>CLP:</b> -				

Other components below reportable levels 1 - < 3

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

#: This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.

## Section 4: First aid measures

### General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### Description of first aid measures

#### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician if you feel unwell.

#### Skin contact

Rinse skin with water/shower. Get medical attention if irritation develops and persists.

#### Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do not induce vomiting. Never give liquid to an unconscious person.

### Most important symptoms and effects, both acute and delayed

Not available.

### Indication of any immediate medical attention and special treatment needed

In case of shortness of breath, give oxygen. Keep victim warm. Symptoms may be delayed.

## Section 5: Firefighting measures

### General fire hazards

Not available.

### Extinguishing media

#### Suitable extinguishing media

Water fog. Foam. Dry powder. Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media

Water. Do not use water jet as an extinguisher, as this will spread the fire.

**Special hazards arising from the substance or mixture** Not available.

**Advice for firefighters**

**Special protective equipment for firefighters** Wear suitable protective equipment.

**Special firefighting procedures** Not available.

**Section 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel** Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Fully encapsulating, vapour protective clothing should be worn for spills and leaks with no fire. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them.

**For emergency responders** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up** Remove sources of ignition. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

**Reference to other sections** For personal protection, see section 8. For waste disposal, see section 13.

**Section 7: Handling and storage**

**Precautions for safe handling** Do not taste or swallow. Avoid breathing vapour. Use only outdoors or in a well-ventilated area. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Hydrogen sulphide (H<sub>2</sub>S) may be given off when this material is heated. Do not depend on sense of smell for warning.

**Conditions for safe storage, including any incompatibilities** Store in a well-ventilated place. Keep container tightly closed. Keep out of the reach of children.

**Specific end use(s)** Not available.

**Section 8: Exposure controls/personal protection**

**Control parameters**

**Occupational exposure limits**

<b>Austria. MAK List Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	MAK	0,5 mg/m <sup>3</sup>	Inhalable fraction.
	STEL	1,5 mg/m <sup>3</sup>	Inhalable fraction.
<b>Belgium. Exposure Limit Values. Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.

**Belgium. Exposure Limit Values.**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

**Bulgaria. OELs. Regulation No 13 of Ministry of Labor & Social Policy, with Ministry of Health, on protection of workers related to exposure to chemical agents at work**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	TWA	5 mg/m3
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	TWA	5 mg/m3
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	Ceiling	1,5 mg/m3	
	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	Ceiling	1000 mg/m3	
	TWA	200 mg/m3	
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	Ceiling	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	Ceiling	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
White mineral oil (petroleum) (8042-47-5)	Ceiling	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

**Denmark. Exposure Limit Values**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TLV	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TLV	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	TLV	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	TLV	1 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TLV	1 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TLV	1 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TLV	1 mg/m3	Mist.

**Estonia**

No exposure limits noted for the ingredient(s).

**Finland. Workplace Exposure Limits**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Mist.

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	VME	0,5 mg/m3

**Germany**

No exposure limits noted for the ingredient(s).

**Germany - TRGS 900**

No exposure limits noted for the ingredient(s).

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Mist.

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	STEL	2 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	0,5 mg/m3	
	Ceiling	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	Ceiling	5 mg/m3	Mist.
	Ceiling	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	Ceiling	5 mg/m3	Mist.
	Ceiling	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	Ceiling	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	Ceiling	5 mg/m3	Mist.

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	Dust.
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	1 mg/m3	Mist.
	TWA	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	TWA	1 mg/m3	Mist.
	TWA	1 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	1 mg/m3	Mist.
	TWA	1 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	1 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	1 mg/m3	Mist.

**Ireland. Occupational Exposure Limits**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	0,2 mg/m3	Inhalable fraction.
	TWA	0,2 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	TWA	0,2 mg/m3	Inhalable fraction.
	TWA	0,2 mg/m3	Inhalable fraction.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	0,2 mg/m3	Inhalable fraction.
	TWA	0,2 mg/m3	Inhalable fraction.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	0,2 mg/m3	Inhalable fraction.
White mineral oil (petroleum) (8042-47-5)	TWA	0,2 mg/m3	Inhalable fraction.

**Italy. OELs**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Inhalable fraction.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Inhalable fraction.

**Latvia**

No exposure limits noted for the ingredient(s).

**Lithuania. OELs. Occupational Exposure Limit Values for Hazardous Chemical Substance Concentration, General Requirements (No. 645/169)**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	3 mg/m3	Fume and mist.
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	TWA	1 mg/m3	Fume and mist.
	STEL	3 mg/m3	Fume and mist.
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	TWA	1 mg/m3	Fume and mist.
	STEL	3 mg/m3	Fume and mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	1 mg/m3	Fume and mist.
	STEL	3 mg/m3	Fume and mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	1 mg/m3	Fume and mist.
	STEL	3 mg/m3	Fume and mist.
White mineral oil (petroleum) (8042-47-5)	TWA	1 mg/m3	Fume and mist.
	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.

**Luxembourg**

No exposure limits noted for the ingredient(s).

**Malta**

No exposure limits noted for the ingredient(s).

**Netherlands. OELs (binding)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	TWA	5 mg/m3	Mist.

**Netherlands. OELs (binding)**

Components	Type	Value	Form
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Mist.

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TLV	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TLV	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	TLV	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	TLV	1 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TLV	1 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TLV	1 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TLV	1 mg/m3	Mist.

**Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m3	Aerosol
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	TWA STEL	5 mg/m3 10 mg/m3	Aerosol Aerosol
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	TWA STEL	5 mg/m3 10 mg/m3	Aerosol Aerosol
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA STEL	5 mg/m3 10 mg/m3	Aerosol Aerosol
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA STEL	5 mg/m3 10 mg/m3	Aerosol Aerosol
White mineral oil (petroleum) (8042-47-5)	TWA STEL	5 mg/m3 10 mg/m3	Aerosol Aerosol
	TWA	5 mg/m3	Aerosol

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	



**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
White mineral oil (petroleum) (8042-47-5)	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	STEL	10 mg/m3	
	TWA	5 mg/m3	
White mineral oil (petroleum) (8042-47-5)	STEL	10 mg/m3	
	TWA	5 mg/m3	

**Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	Ceiling	1 mg/m3	Total dust.
	TWA	0,5 mg/m3	Total dust.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Aerosol

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	Inhalable fraction.

**Spain. Occupational Exposure Limits**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m3	Mist.
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	TWA	5 mg/m3	Mist.
	STEL	10 mg/m3	Mist.
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	TWA	5 mg/m3	Mist.
	STEL	10 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
	STEL	10 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Mist.
	STEL	10 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Mist.
	STEL	10 mg/m3	Mist.

**Sweden. Occupational Exposure Limit Values**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	3 mg/m3	Mist.
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	TWA	1 mg/m3	Mist.
	STEL	3 mg/m3	Mist.
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	TWA	1 mg/m3	Mist.
	STEL	3 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	1 mg/m3	Mist.
	STEL	3 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	1 mg/m3	Mist.
	STEL	3 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	1 mg/m3	Mist.
	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.

**Switzerland**

No exposure limits noted for the ingredient(s).

**UK. EH40 Workplace Exposure Limits (WELs)**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3

**EU, 91/322/EEC, 2000/39/EC, 2006/15/EC**

No exposure limits noted for the ingredient(s).

**Biological limit values****EU, 91/322/EEC, 2000/39/EC, 2006/15/EC**

No biological exposure limits noted for the ingredient(s).

**Finland**

No biological exposure limits noted for the ingredient(s).

**France**

No biological exposure limits noted for the ingredient(s).

**Luxembourg**

No biological exposure limits noted for the ingredient(s).

**Spain**

No biological exposure limits noted for the ingredient(s).

**United Kingdom**

No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures**

Follow standard monitoring procedures.

**DNEL**

Not available.

**PNEC**

Not available.

**Exposure controls****Appropriate engineering controls**

Provide adequate general and local exhaust ventilation.

**Individual protection measures, such as personal protective equipment****General information**

Not available.

**Eye/face protection**

Not normally needed.

**Skin protection****- Hand protection**

Not normally needed.

**- Other**

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards**

Not available.

**Hygiene measures**

When using, do not eat, drink or smoke. Wash hands after handling and before eating. Handle in accordance with good industrial hygiene and safety practices.

**Environmental exposure controls**

Not available.

**Section 9: Physical and chemical properties****Information on basic physical and chemical properties****Appearance**

Oily.

**Physical state**

Liquid.

**Form**

Grease

**Colour**

Black.

**Odour**

Petroleum

**Odour threshold**

Not available.

**pH**

Not applicable.

**Melting point/freezing point**

Not available.

**Boiling point, initial boiling point, and boiling range**

360 °C (680 °F) estimated

**Flash point**

150 °C (302 °F) Pensky-Martens Closed Cup (Base Oil)

**Auto-ignition temperature**

260 °C (500 °F) estimated

**Flammability (solid, gas)**

Not available.

**Flammability limit - lower (%)**

Not available.

**Flammability limit - upper (%)**

Not available.

**Oxidising properties**

Not applicable.

**Explosive properties**

Not applicable.

**Explosive limit**

Not applicable.

**Vapour pressure**

0 hPa estimated

Density	872 kg/m <sup>3</sup>
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Relative density	Not available.
Solubility (water)	Negligible
Solubility (other)	Oil

#### Information on basic physical and chemical properties

Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Bulk density	Not applicable.
Pour point	Not applicable.
Viscosity	37,4 cSt
Viscosity temperature	40 °C (104 °F) ASTM D445
VOC (Weight %)	0,04 % estimated
Percent volatile	0,04 % estimated

#### Other data

Drop point	215 °C (419 °F)
Flammability class	Combustible IIIB estimated
Specific gravity	0,87

**Other information** No relevant additional information available.

### Section 10: Stability and reactivity

Reactivity	None known. Strong oxidizing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Not available.
Conditions to avoid	Avoid temperatures exceeding the flash point.
Incompatible materials	None known.
Hazardous decomposition products	No dangerous reaction known under conditions of normal use. At thermal decomposition temperatures, carbon monoxide and carbon dioxide. Hydrogen sulfide. Mercaptans.

### Section 11: Toxicological information

**General information** Not available.

#### Information on likely routes of exposure

Ingestion	Harmful if swallowed.
Inhalation	Harmful if inhaled.
Skin contact	Not available.
Eye contact	Not available.

**Symptoms** Not available.

#### Information on toxicological effects

Acute toxicity	Harmful if inhaled. Harmful if swallowed.
Skin corrosion/irritation	Not available.
Serious eye damage/eye irritation	Not available.
Respiratory sensitisation	Not available.
Skin sensitisation	Not available.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not available.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

MINERAL OILS, HIGHLY-REFINED (CAS 8042-47-5) 3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity** Not available.

**Specific target organ toxicity - single exposure** Not available.

<b>Specific target organ toxicity - repeated exposure</b>	Not available.
<b>Aspiration hazard</b>	Not available.
<b>Mixture versus substance information</b>	Not available.
<b>Other information</b>	Not available.

## Section 12: Ecological information

### Toxicity

Product	Test results
Molylube Multipurpose Extreme Pressure Grease with Moly 46-0 (Mixture)	EC50 Daphnia: 32600 mg/l 48 hours estimated LC50 Fish: 61494,02 mg/l 96 hours estimated

\* Estimates for product may be based on additional component data not shown.

<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulative potential</b>	Not available.
<b>Mobility</b>	Not available.
<b>Environmental fate - Partition coefficient</b>	Not available.
<b>Mobility in soil</b>	Not available.
<b>Results of PBT and vPvB assessment</b>	Not available.
<b>Other adverse effects</b>	Not available.

## Section 13: Disposal considerations

### Waste treatment methods

<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

## Section 14: Transport information

### ADR

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

### ADN

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information available.

## Section 15: Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

#### Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws  
This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

#### National regulations

Not available.

#### Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## Section 16: Other information

#### List of abbreviations

Not available.

#### References

Not available.

#### Information on evaluation method leading to the classification of mixture

Not available.

#### Full text of any statements or R-phrases and H-phrases under Sections 2 to 15

R20/22 Harmful by inhalation and if swallowed.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
H302 - Harmful if swallowed.  
H332 - Harmful if inhaled.  
H411 - Toxic to aquatic life with long lasting effects.

#### Revision information

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING:  
IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### Training information

Not available.

#### Disclaimer

Bel-Ray Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

#### Issue date

13-December-2011

#### Revision date

13-December-2011

#### Print date

13-December-2011



# SAFETY DATA SHEET

## Section 1: Identification of the substance/mixture and of the company/undertaking

### Product identifier

**Trade name or designation of the mixture** Molyube Multipurpose Extreme Pressure Grease with Moly 1

**Product code** 40900

**Registration number** -

**Synonyms** Molyube AC 1000 1

**Date of first issue** 03-September-2011

**Version number** 1,1

**Revision date** 14-December-2011

**Supersedes date** 03-November-2011

### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Not available.

**Uses advised against** None known.

### Details of the supplier of the safety data sheet

Bel-Ray Company, Inc.  
Bel-Ray Europe S.A.  
Avenue Louise, 304  
P.O. Box 526  
Farmingdale, NJ 07727  
Bruxelles-Brussel, B-1050  
Belgium  
United States of America  
+1 732 938 2421  
+32 (0) 2 540 84 52  
Europe: +32 (0) 2 201 18 87  
CHEMTREC: 800-424-9300 (USA)  
CHEMTREC: +1 703-527-3887 (outside USA - call collect)  
Europe Emergency: 112

## Section 2: Hazards identification

### Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

**Classification** Xn;R20/22

The full text for all R-phrases is displayed in section 16.

### Classification according to Regulation (EC) No 1272/2008 as amended

#### Health hazards

Acute toxicity, oral	Category 4 (% of the mixture consists of ingredient(s) of unknown toxicity.)	Harmful if swallowed.
Acute toxicity, inhalation	Category 4 (% of the mixture consists of ingredient(s) of unknown toxicity.)	Harmful if inhaled.

### Hazard summary

**Physical hazards** Not classified for physical hazards.

**Health hazards** Harmful by inhalation and if swallowed. Occupational exposure to the substance or mixture may cause adverse health effects.

**Environmental hazards** Not classified for hazards to the environment.

**Specific hazards** Not available.

**Main symptoms** Not available.  
**Label elements**  
**Label according to Regulation (EC) No. 1272/2008 as amended**  
**Contains:** Antimony Tris[o,o-dipropyl] Tris(dithiophosphate)



**Signal word** Warning  
**Hazard statements** Harmful if swallowed. Harmful if inhaled.  
**Precautionary statements**  
**Prevention** Avoid breathing vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.  
**Response** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.  
**Storage** Not available.  
**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.  
**Supplemental label information** Not applicable.  
**Other hazards** Not assigned.

### Section 3: Composition/information on ingredients

#### Mixture

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Distillates (petroleum), hydrotreated heavy naphthenic <b>Classification:</b> <b>DSD:</b> - <b>CLP:</b> -	0 - < 100	64742-52-5 265-155-0	-	649-465-00-7	#
Distillates (petroleum), hydrotreated heavy paraffinic <b>Classification:</b> <b>DSD:</b> - <b>CLP:</b> -	0 - < 100	64742-54-7 265-157-1	-	649-467-00-8	#
Distillates (petroleum), solvent-refined heavy paraffinic <b>Classification:</b> <b>DSD:</b> - <b>CLP:</b> -	0 - < 100	64741-88-4 265-090-8	-	649-454-00-7	#
Lubricating Oils (petroleum), Hydrotreated Spent <b>Classification:</b> <b>DSD:</b> - <b>CLP:</b> -	0 < 100	64742-58-1 265-161-3	-	-	#
Residual Oils (petroleum), Solvent-refined <b>Classification:</b> <b>DSD:</b> - <b>CLP:</b> -	0 - < 100	64742-01-4 265-101-6	-	649-459-00-4	#



Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
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White mineral oil (petroleum)	0 - < 100	8042-47-5 232-455-8	-	-	#
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**Classification:** **DSD:** -  
**CLP:** -

Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )-	5 - < 10	54326-11-3 259-105-7	-	-	#
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**Classification:** **DSD:** -  
**CLP:** -

Antimony Tris[o,o-dipropyl] Tris(dithiophosphate)	1 - < 3	15874-48-3 240-001-5	-	051-003-00-9	#
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**Classification:** **DSD:** Xn;R20/22, N;R51/53  
**CLP:** Acute Tox. 4;H302, Acute Tox. 4;H332, Aquatic Chronic 2;H411

Molybdenum Disulfide	< 0,3	1317-33-5 215-263-9	-	-	
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**Classification:** **DSD:** -  
**CLP:** -

Carbon black	< 0,2	1333-86-4 215-609-9	-	-	
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**Classification:** **DSD:** -  
**CLP:** -

Other components below reportable levels 1 - < 3

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

#: This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.

## Section 4: First aid measures

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### Description of first aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin contact** Rinse skin with water/shower. Get medical attention if irritation develops and persists.

**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do not induce vomiting. Never give liquid to an unconscious person.

**Most important symptoms and effects, both acute and delayed** Not available.

**Indication of any immediate medical attention and special treatment needed** In case of shortness of breath, give oxygen. Keep victim warm. Symptoms may be delayed.

## Section 5: Firefighting measures

**General fire hazards** Not available.

## Extinguishing media

**Suitable extinguishing media** Water fog. Foam. Dry powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Water. Do not use water jet as an extinguisher, as this will spread the fire.

**Special hazards arising from the substance or mixture** Not available.

## Advice for firefighters

**Special protective equipment for firefighters** Wear suitable protective equipment.

**Special firefighting procedures** Not available.

## Section 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Fully encapsulating, vapour protective clothing should be worn for spills and leaks with no fire. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them.

**For emergency responders** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up** Remove sources of ignition. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

**Reference to other sections** For personal protection, see section 8. For waste disposal, see section 13.

## Section 7: Handling and storage

**Precautions for safe handling** Do not taste or swallow. Avoid breathing vapour. Use only outdoors or in a well-ventilated area. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Hydrogen sulphide (H<sub>2</sub>S) may be given off when this material is heated. Do not depend on sense of smell for warning.

**Conditions for safe storage, including any incompatibilities** Store in a well-ventilated place. Keep container tightly closed. Keep out of the reach of children.

**Specific end use(s)** Not available.

## Section 8: Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

##### Austria. MAK List Components

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	MAK	0,5 mg/m <sup>3</sup>	Inhalable fraction.

	STEL	1,5 mg/m <sup>3</sup>	Inhalable fraction.
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##### Belgium. Exposure Limit Values. Components

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	

Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m <sup>3</sup>	Mist.
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	TWA	5 mg/m <sup>3</sup>	Mist.
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**Belgium. Exposure Limit Values.**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

**Bulgaria. OELs. Regulation No 13 of Ministry of Labor & Social Policy, with Ministry of Health, on protection of workers related to exposure to chemical agents at work**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m3
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	Ceiling	1,5 mg/m3	
	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	Ceiling	1000 mg/m3	
	TWA	200 mg/m3	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	Ceiling	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	Ceiling	10 mg/m3	Aerosol

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value	Form
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m <sup>3</sup>	Aerosol
	Ceiling	10 mg/m <sup>3</sup>	Aerosol
White mineral oil (petroleum ) (8042-47-5)	TWA	5 mg/m <sup>3</sup>	Aerosol
	Ceiling	10 mg/m <sup>3</sup>	Aerosol
TWA	5 mg/m <sup>3</sup>	Aerosol	

**Denmark. Exposure Limit Values**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TLV	0,5 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TLV	1 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TLV	1 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TLV	1 mg/m <sup>3</sup>	Mist.
Lubricating Oils (petroleum ) , Hydrotreated Spent (64742-58-1)	TLV	1 mg/m <sup>3</sup>	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TLV	1 mg/m <sup>3</sup>	Mist.
White mineral oil (petroleum ) (8042-47-5)	TLV	1 mg/m <sup>3</sup>	Mist.

**Estonia. OELs. Occupational Exposure Limit Values for Hazardous Substances (Minister of Social Affairs Regulation No. 57)**

Components	Type	Value
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (54326-11-3)	TWA	2 mg/m <sup>3</sup>

**Finland. Workplace Exposure Limits**

Components	Type	Value	Form
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (54326-11-3)	TWA	2 mg/m <sup>3</sup>	
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m <sup>3</sup>	Mist.
Lubricating Oils (petroleum ) , Hydrotreated Spent (64742-58-1)	TWA	5 mg/m <sup>3</sup>	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m <sup>3</sup>	Mist.

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	VME	0,5 mg/m <sup>3</sup>

**Germany**

No exposure limits noted for the ingredient(s).

**Germany - TRGS 900**

No exposure limits noted for the ingredient(s).

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Mist.

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	STEL	2 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA Ceiling	0,5 mg/m3 5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	Ceiling	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	Ceiling	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	Ceiling	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	Ceiling	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	Ceiling	5 mg/m3	Mist.

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value	Form
Aluminum, (benzoato-o,o)hydroxy(octadecanoato-o,o)- (54326-11-3)	TWA	2 mg/m3	
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	Dust.
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	1 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	1 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	1 mg/m3	Mist.

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value	Form
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	1 mg/m <sup>3</sup>	Mist.
White mineral oil (petroleum ) (8042-47-5)	TWA	1 mg/m <sup>3</sup>	Mist.

**Ireland. Occupational Exposure Limits**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	0,2 mg/m <sup>3</sup>	Inhalable fraction.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	0,2 mg/m <sup>3</sup>	Inhalable fraction.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	0,2 mg/m <sup>3</sup>	Inhalable fraction.
Lubricating Oils (petroleum ), Hydrotreated Spent (64742-58-1)	TWA	0,2 mg/m <sup>3</sup>	Inhalable fraction.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	0,2 mg/m <sup>3</sup>	Inhalable fraction.
White mineral oil (petroleum ) (8042-47-5)	TWA	0,2 mg/m <sup>3</sup>	Inhalable fraction.

**Italy. OELs**

Components	Type	Value	Form
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (54326-11-3)	TWA	1 mg/m <sup>3</sup>	Respirable fraction.
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.
White mineral oil (petroleum ) (8042-47-5)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.

**Latvia**

No exposure limits noted for the ingredient(s).

**Lithuania. OELs. Occupational Exposure Limit Values for Hazardous Chemical Substance Concentration, General Requirements (No. 645/169)**

Components	Type	Value	Form
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (54326-11-3)	TWA	1 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	3 mg/m <sup>3</sup>	Fume and mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	1 mg/m <sup>3</sup>	Fume and mist.
	STEL	3 mg/m <sup>3</sup>	Fume and mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	1 mg/m <sup>3</sup>	Fume and mist.
	STEL	3 mg/m <sup>3</sup>	Fume and mist.
	TWA	1 mg/m <sup>3</sup>	Fume and mist.

**Lithuania. OELs. Occupational Exposure Limit Values for Hazardous Chemical Substance Concentration, General Requirements (No. 645/169)**

Components	Type	Value	Form
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	STEL	3 mg/m3	Fume and mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	1 mg/m3	Fume and mist.
	STEL	3 mg/m3	Fume and mist.
White mineral oil (petroleum) (8042-47-5)	TWA	1 mg/m3	Fume and mist.
	STEL	3 mg/m3	Fume and mist.

**Luxembourg**

No exposure limits noted for the ingredient(s).

**Malta**

No exposure limits noted for the ingredient(s).

**Netherlands. OELs (binding)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Mist.

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TLV	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TLV	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TLV	1 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TLV	1 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TLV	1 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TLV	1 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TLV	1 mg/m3	Mist.

**Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m <sup>3</sup>	Aerosol
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
	TWA	5 mg/m <sup>3</sup>	Aerosol

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m <sup>3</sup>	Aerosol
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
	TWA	5 mg/m <sup>3</sup>	Aerosol

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

<b>Components</b>	<b>Type</b>	<b>Value</b>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m <sup>3</sup>	
	STEL	10 mg/m <sup>3</sup>	
	TWA	5 mg/m <sup>3</sup>	



**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	10 mg/m3
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3
	STEL	10 mg/m3
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m3
	STEL	10 mg/m3
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3
	STEL	10 mg/m3
	TWA	5 mg/m3

**Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	Ceiling	1 mg/m3	Total dust.
White mineral oil (petroleum) (8042-47-5)	TWA	0,5 mg/m3	Total dust.
	TWA	5 mg/m3	Aerosol

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	Inhalable fraction.

**Spain. Occupational Exposure Limits**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

**Sweden. Occupational Exposure Limit Values**

Components	Type	Value	Form
Aluminum, (benzoato-o,o)hydroxy(octadecanoato-o,o)- (54326-11-3)	TWA	1 mg/m3	Total dust.

**Sweden. Occupational Exposure Limit Values**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	3 mg/m <sup>3</sup>	Mist.
	TWA	1 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	STEL	3 mg/m <sup>3</sup>	Mist.
	TWA	1 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	3 mg/m <sup>3</sup>	Mist.
	TWA	1 mg/m <sup>3</sup>	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	STEL	3 mg/m <sup>3</sup>	Mist.
	TWA	1 mg/m <sup>3</sup>	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	3 mg/m <sup>3</sup>	Mist.
	TWA	1 mg/m <sup>3</sup>	Mist.
White mineral oil (petroleum) (8042-47-5)	STEL	3 mg/m <sup>3</sup>	Mist.
	TWA	1 mg/m <sup>3</sup>	Mist.

**Switzerland**

No exposure limits noted for the ingredient(s).

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>

**EU, 91/322/EEC, 2000/39/EC, 2006/15/EC**

No exposure limits noted for the ingredient(s).

**Biological limit values****EU, 91/322/EEC, 2000/39/EC, 2006/15/EC**

No biological exposure limits noted for the ingredient(s).

**Finland**

No biological exposure limits noted for the ingredient(s).

**France**

No biological exposure limits noted for the ingredient(s).

**Luxembourg**

No biological exposure limits noted for the ingredient(s).

**Spain**

No biological exposure limits noted for the ingredient(s).

**United Kingdom**

No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**DNEL** Not available.

**PNEC** Not available.

**Exposure controls**

**Appropriate engineering controls** Provide adequate general and local exhaust ventilation.

**Individual protection measures, such as personal protective equipment**

**General information** Not available.

**Eye/face protection** Not normally needed.

**Skin protection**

**- Hand protection** Not normally needed.

**- Other** Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Thermal hazards</b>	Not available.
<b>Hygiene measures</b>	When using, do not eat, drink or smoke. Wash hands after handling and before eating. Handle in accordance with good industrial hygiene and safety practices.
<b>Environmental exposure controls</b>	Not available.

## Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

<b>Appearance</b>	Oily.
<b>Physical state</b>	Liquid.
<b>Form</b>	Grease
<b>Colour</b>	Black.
<b>Odour</b>	Petroleum
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	Not available.
<b>Boiling point, initial boiling point, and boiling range</b>	360 °C (680 °F) estimated
<b>Flash point</b>	214 °C (417,2 °F) Pensky-Martens Closed Cup (Base Oil)
<b>Auto-ignition temperature</b>	260 °C (500 °F) estimated
<b>Flammability (solid, gas)</b>	Not available.
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Oxidising properties</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.
<b>Explosive limit</b>	Not applicable.
<b>Vapour pressure</b>	0 hPa estimated
<b>Density</b>	880 kg/m <sup>3</sup>
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Negligible
<b>Solubility (other)</b>	Oil

### Information on basic physical and chemical properties

<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Bulk density</b>	Not applicable.
<b>Pour point</b>	Not applicable.
<b>Viscosity</b>	150 cSt
<b>Viscosity temperature</b>	40 °C (104 °F) ASTM D445
<b>VOC (Weight %)</b>	0,04 % estimated
<b>Percent volatile</b>	0,04 % estimated
<b>Other data</b>	
<b>Drop point</b>	259 °C (498,2 °F)
<b>Flammability class</b>	Combustible IIIIB estimated
<b>Specific gravity</b>	0,88
<b>Other information</b>	No relevant additional information available.

## Section 10: Stability and reactivity

<b>Reactivity</b>	None known. Strong oxidizing agents.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Not available.
<b>Conditions to avoid</b>	Avoid temperatures exceeding the flash point.
<b>Incompatible materials</b>	None known.
<b>Hazardous decomposition products</b>	No dangerous reaction known under conditions of normal use. At thermal decomposition temperatures, carbon monoxide and carbon dioxide. Hydrogen sulfide. Mercaptans.

## Section 11: Toxicological information

<b>General information</b>	Not available.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	Harmful if inhaled.
<b>Skin contact</b>	Not available.
<b>Eye contact</b>	Not available.
<b>Symptoms</b>	Not available.
<b>Information on toxicological effects</b>	
<b>Acute toxicity</b>	Harmful if inhaled. Harmful if swallowed.
<b>Skin corrosion/irritation</b>	Not available.
<b>Serious eye damage/eye irritation</b>	Not available.
<b>Respiratory sensitisation</b>	Not available.
<b>Skin sensitisation</b>	Not available.
<b>Germ cell mutagenicity</b>	Not available.
<b>Carcinogenicity</b>	Not available.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
MINERAL OILS, HIGHLY-REFINED (CAS 8042-47-5)	3 Not classifiable as to carcinogenicity to humans.
<b>Reproductive toxicity</b>	Not available.
<b>Specific target organ toxicity - single exposure</b>	Not available.
<b>Specific target organ toxicity - repeated exposure</b>	Not available.
<b>Aspiration hazard</b>	Not available.
<b>Mixture versus substance information</b>	Not available.
<b>Other information</b>	Not available.

## Section 12: Ecological information

### Toxicity

<b>Product</b>	<b>Test results</b>
Molyube Multipurpose Extreme Pressure Grease with Moly 1 (Mixture)	EC50 Daphnia: 36222,22 mg/l 48 hours estimated LC50 Fish: 68326,02 mg/l 96 hours estimated

\* Estimates for product may be based on additional component data not shown.

<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulative potential</b>	Not available.
<b>Mobility</b>	Not available.
<b>Environmental fate - Partition coefficient</b>	Not available.
<b>Mobility in soil</b>	Not available.

<b>Results of PBT and vPvB assessment</b>	Not available.
<b>Other adverse effects</b>	Not available.

## Section 13: Disposal considerations

### Waste treatment methods

<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

## Section 14: Transport information

### ADR

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

### ADN

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information available.

## Section 15: Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

**Other regulations** The product is classified and labelled in accordance with EC directives or respective national laws This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

**National regulations** Not available.

**Chemical safety assessment** No Chemical Safety Assessment has been carried out.

## Section 16: Other information

**List of abbreviations** Not available.

**References** Not available.

**Information on evaluation method leading to the classification of mixture** Not available.

**Full text of any statements or R-phrases and H-phrases under Sections 2 to 15** R20/22 Harmful by inhalation and if swallowed.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
H302 - Harmful if swallowed.  
H332 - Harmful if inhaled.  
H411 - Toxic to aquatic life with long lasting effects.

**Revision information** IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING:  
IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Training information** Not available.

**Disclaimer**

Bel-Ray Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

**Issue date**

14-December-2011

**Revision date**

14-December-2011

**Print date**

14-December-2011



# SAFETY DATA SHEET

## Section 1: Identification of the substance/mixture and of the company/undertaking

### Product identifier

**Trade name or designation of the mixture** Molyube Multipurpose Extreme Pressure Grease with Moly 2

**Product code** 40920

**Registration number** -

**Synonyms** Molyube AC 1000 2

**Date of first issue** 14-May-2011

**Version number** 1,2

**Revision date** 06-August-2012

**Supersedes date** 04-January-2012

### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Lubricants, Greases and Release products

**Uses advised against** None known.

### Details of the supplier of the safety data sheet

Bel-Ray Europe S.A.  
Avenue Louise, 304  
Bruxelles-Brussel, B-1050  
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+32 (0) 2 540 84 52  
Europe: +32 (0) 2 201 18 87  
Europe Emergency: 112  
Bel-Ray Company, Inc.  
P.O. Box 526  
Farmingdale, NJ 07727  
United States of America  
+1 732 938 2421  
CHEMTREC: 800-424-9300 (USA)  
CHEMTREC: +1 703-527-3887 (outside USA - call collect)

## Section 2: Hazards identification

### Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

**Classification** Xn;R20/22

The full text for all R-phrases is displayed in section 16.

### Classification according to Regulation (EC) No 1272/2008 as amended

#### Health hazards

Acute toxicity, oral	Category 4 (97,95% of the mixture consists of ingredient(s) of unknown toxicity.)	Harmful if swallowed.
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Acute toxicity, inhalation	Category 4 (97,65% of the mixture consists of ingredient(s) of unknown toxicity.)	Harmful if inhaled.
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### Hazard summary

**Physical hazards** Not classified for physical hazards.

**Health hazards** Harmful by inhalation and if swallowed. Occupational exposure to the substance or mixture may cause adverse health effects.

**Environmental hazards** Not classified for hazards to the environment.

**Specific hazards** Not available.

**Main symptoms** Not available.

**Label elements****Label according to Regulation (EC) No. 1272/2008 as amended****Contains:** Antimony Tris[o,o-dipropyl] Tris(dithiophosphate)**Signal word** Warning**Hazard statements** Harmful if swallowed. Harmful if inhaled.**Precautionary statements****Prevention** Avoid breathing vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.**Response** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.**Storage** Not available.**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.**Supplemental label information** Not applicable.**Other hazards** Not assigned.**Section 3: Composition/information on ingredients****Mixture****General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
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Distillates (petroleum), hydrotreated heavy naphthenic	0 - < 100	64742-52-5 265-155-0	-	649-465-00-7	#
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**Classification:** **DSD:** -  
**CLP:** -

Distillates (petroleum), hydrotreated heavy paraffinic	0 - < 100	64742-54-7 265-157-1	-	649-467-00-8	#
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**Classification:** **DSD:** -  
**CLP:** -

Distillates (petroleum), solvent-refined heavy paraffinic	0 - < 100	64741-88-4 265-090-8	-	649-454-00-7	#
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**Classification:** **DSD:** -  
**CLP:** -

Lubricating Oils (petroleum), Hydrotreated Spent	0 < 100	64742-58-1 265-161-3	-	-	#
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**Classification:** **DSD:** -  
**CLP:** -

White mineral oil (petroleum)	0 - < 100	8042-47-5 232-455-8	-	-	#
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**Classification:** **DSD:** -  
**CLP:** -

Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )-	5 - < 10	54326-11-3 259-105-7	-	-	
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**Classification:** **DSD:** -  
**CLP:** -



Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate)	1 - < 3	15874-48-3 240-001-5	-	051-003-00-9	#
<b>Classification:</b>	<b>DSD:</b> Xn;R20/22, N;R51/53				
	<b>CLP:</b> Acute Tox. 4;H302, Acute Tox. 4;H332, Aquatic Chronic 2;H411				
Molybdenum Disulfide	< 0,3	1317-33-5 215-263-9	-	-	
<b>Classification:</b>	<b>DSD:</b> -				
	<b>CLP:</b> -				
Carbon black	< 0,2	1333-86-4 215-609-9	-	-	
<b>Classification:</b>	<b>DSD:</b> -				
	<b>CLP:</b> -				

Other components below reportable levels 1 - < 3

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

#: This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

**Composition comments** Note L: The classification as a carcinogen for all base oils does not apply as it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346.

## Section 4: First aid measures

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### Description of first aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin contact** Rinse skin with water/shower. Get medical attention if irritation develops and persists.

**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do not induce vomiting. Never give liquid to an unconscious person.

**Most important symptoms and effects, both acute and delayed** Not available.

**Indication of any immediate medical attention and special treatment needed** In case of shortness of breath, give oxygen. Keep victim warm. Symptoms may be delayed.

## Section 5: Firefighting measures

**General fire hazards** Not available.

### Extinguishing media

**Suitable extinguishing media** Water fog. Foam. Dry powder. Carbon dioxide (CO2).

**Unsuitable extinguishing media** Water. Do not use water jet as an extinguisher, as this will spread the fire.

**Special hazards arising from the substance or mixture** Not available.

## Advice for firefighters

<b>Special protective equipment for firefighters</b>	Wear suitable protective equipment.
<b>Special firefighting procedures</b>	Not available.

## Section 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Fully encapsulating, vapour protective clothing should be worn for spills and leaks with no fire. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them.
<b>For emergency responders</b>	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up** Remove sources of ignition. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

**Reference to other sections** For personal protection, see section 8. For waste disposal, see section 13.

## Section 7: Handling and storage

**Precautions for safe handling** Do not taste or swallow. Avoid breathing vapour. Use only outdoors or in a well-ventilated area. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Hydrogen sulphide (H<sub>2</sub>S) may be given off when this material is heated. Do not depend on sense of smell for warning.

**Conditions for safe storage, including any incompatibilities** Store in a well-ventilated place. Keep container tightly closed. Keep out of the reach of children.

**Specific end use(s)** Not available.

## Section 8: Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

##### Austria. MAK List

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	MAK	0,5 mg/m <sup>3</sup>	Inhalable fraction.
	STEL	1,5 mg/m <sup>3</sup>	Inhalable fraction.

##### Belgium. Exposure Limit Values.

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
	STEL	10 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m <sup>3</sup>	Mist.
	STEL	10 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m <sup>3</sup>	Mist.
	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.

**Belgium. Exposure Limit Values.**

Components	Type	Value	Form
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	STEL	10 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Mist.
	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	Ceiling	1,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	0,5 mg/m3	
	Ceiling	1000 mg/m3	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	200 mg/m3	
	Ceiling	10 mg/m3	Aerosol
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Aerosol
	Ceiling	10 mg/m3	Aerosol
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Aerosol
	Ceiling	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

**Denmark. Exposure Limit Values**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TLV	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TLV	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TLV	1 mg/m3	Mist.

**Denmark. Exposure Limit Values**

Components	Type	Value	Form
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TLV	1 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TLV	1 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TLV	1 mg/m3	Mist.

**Estonia**

No exposure limits noted for the ingredient(s).

**Finland. Workplace Exposure Limits**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Mist.

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	VME	0,5 mg/m3

**Germany**

No exposure limits noted for the ingredient(s).

**Germany - TRGS 900**

No exposure limits noted for the ingredient(s).

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Mist.

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	STEL	2 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA Ceiling	0,5 mg/m3 5 mg/m3	Mist.

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	Ceiling	5 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	Ceiling	5 mg/m <sup>3</sup>	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	Ceiling	5 mg/m <sup>3</sup>	Mist.
White mineral oil (petroleum) (8042-47-5)	Ceiling	5 mg/m <sup>3</sup>	Mist.

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	Dust.
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	1 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	1 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	1 mg/m <sup>3</sup>	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	1 mg/m <sup>3</sup>	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	1 mg/m <sup>3</sup>	Mist.

**Ireland. Occupational Exposure Limits**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	0,2 mg/m <sup>3</sup>	Inhalable fraction.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	0,2 mg/m <sup>3</sup>	Inhalable fraction.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	0,2 mg/m <sup>3</sup>	Inhalable fraction.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	0,2 mg/m <sup>3</sup>	Inhalable fraction.
White mineral oil (petroleum) (8042-47-5)	TWA	0,2 mg/m <sup>3</sup>	Inhalable fraction.

**Italy. OELs**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.

**Latvia**

No exposure limits noted for the ingredient(s).

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.
White mineral oil (petroleum) (8042-47-5)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.

**Luxembourg**

No exposure limits noted for the ingredient(s).

**Malta**

No exposure limits noted for the ingredient(s).

**Netherlands. OELs (binding)**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Mist.

**Norway. Administrative Norms for Contaminants in the Workplace**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TLV	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TLV	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TLV	1 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TLV	1 mg/m3	Mist.
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TLV	1 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TLV	1 mg/m3	Mist.

**Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m3	Aerosol
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m3	Aerosol
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

<b>Components</b>	<b>Type</b>	<b>Value</b>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m3	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3	
	STEL	10 mg/m3	
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	
	STEL	10 mg/m3	
Lubricating Oils (petroleum), Hydrotreated Spent (64742-58-1)	TWA	5 mg/m3	
	STEL	10 mg/m3	
	TWA	5 mg/m3	

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
White mineral oil (petroleum ) (8042-47-5)	STEL	10 mg/m3
	TWA	5 mg/m3

**Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	Ceiling	1 mg/m3	Total dust.
	TWA	0,5 mg/m3	Total dust.
White mineral oil (petroleum ) (8042-47-5)	TWA	5 mg/m3	Aerosol

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	Inhalable fraction.

**Spain. Occupational Exposure Limits**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Lubricating Oils (petroleum ), Hydrotreated Spent (64742-58-1)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
White mineral oil (petroleum ) (8042-47-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

**Sweden. Occupational Exposure Limit Values**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.
Lubricating Oils (petroleum ), Hydrotreated Spent (64742-58-1)	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.
White mineral oil (petroleum ) (8042-47-5)	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.



**Switzerland**

No exposure limits noted for the ingredient(s).

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>

**EU, 91/322/EEC, 2000/39/EC, 2006/15/EC**

No exposure limits noted for the ingredient(s).

**Biological limit values****EU, 91/322/EEC, 2000/39/EC, 2006/15/EC**

No biological exposure limits noted for the ingredient(s).

**Finland**

No biological exposure limits noted for the ingredient(s).

**France**

No biological exposure limits noted for the ingredient(s).

**Luxembourg**

No biological exposure limits noted for the ingredient(s).

**Spain**

No biological exposure limits noted for the ingredient(s).

**United Kingdom**

No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**DNEL** Not available.

**PNEC** Not available.

**Exposure controls**

**Appropriate engineering controls** Provide adequate general and local exhaust ventilation.

**Individual protection measures, such as personal protective equipment**

**General information** Not available.

**Eye/face protection** Not normally needed.

**Skin protection**

- **Hand protection** Not normally needed.

- **Other** Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Not available.

**Hygiene measures** When using, do not eat, drink or smoke. Wash hands after handling and before eating. Handle in accordance with good industrial hygiene and safety practices.

**Environmental exposure controls** Not available.

**Section 9: Physical and chemical properties****Information on basic physical and chemical properties**

<b>Appearance</b>	Oily.
<b>Physical state</b>	Liquid.
<b>Form</b>	Grease
<b>Colour</b>	Black.
<b>Odour</b>	Petroleum
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	Not available.
<b>Boiling point, initial boiling point, and boiling range</b>	360 °C (680 °F) estimated

<b>Flash point</b>	214 °C (417,2 °F) Pensky-Martens Closed Cup (Base Oil)
<b>Auto-ignition temperature</b>	260 °C (500 °F) estimated
<b>Flammability (solid, gas)</b>	Not available.
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Oxidising properties</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.
<b>Explosive limit</b>	Not applicable.
<b>Vapour pressure</b>	0 hPa estimated
<b>Density</b>	886 kg/m <sup>3</sup>
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Negligible
<b>Solubility (other)</b>	Oil

#### Information on basic physical and chemical properties

<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Bulk density</b>	Not applicable.
<b>Pour point</b>	Not applicable.
<b>Viscosity</b>	220 cSt
<b>Viscosity temperature</b>	40 °C (104 °F) ASTM D445
<b>VOC (Weight %)</b>	0,04 % estimated
<b>Percent volatile</b>	0,04 % estimated
<b>Other data</b>	
<b>Drop point</b>	260 °C (500 °F)
<b>Flammability class</b>	Combustible IIIB estimated
<b>Specific gravity</b>	0,89
<b>Other information</b>	No relevant additional information available.

### Section 10: Stability and reactivity

<b>Reactivity</b>	Strong oxidizing agents.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Not available.
<b>Conditions to avoid</b>	Avoid temperatures exceeding the flash point.
<b>Incompatible materials</b>	None known.
<b>Hazardous decomposition products</b>	At thermal decomposition temperatures, carbon monoxide and carbon dioxide. Hydrogen sulfide. Mercaptans.

### Section 11: Toxicological information

<b>General information</b>	Not available.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	Harmful if inhaled.
<b>Skin contact</b>	Not available.
<b>Eye contact</b>	Not available.
<b>Symptoms</b>	Not available.
<b>Information on toxicological effects</b>	
<b>Acute toxicity</b>	Harmful if inhaled. Harmful if swallowed.

<b>Skin corrosion/irritation</b>	Not available.
<b>Serious eye damage/eye irritation</b>	Not available.
<b>Respiratory sensitisation</b>	Not available.
<b>Skin sensitisation</b>	Not available.
<b>Germ cell mutagenicity</b>	Not available.
<b>Carcinogenicity</b>	Not available.

#### **IARC Monographs. Overall Evaluation of Carcinogenicity**

MINERAL OILS, HIGHLY-REFINED (CAS 8042-47-5) 3 Not classifiable as to carcinogenicity to humans.

<b>Reproductive toxicity</b>	Not available.
<b>Specific target organ toxicity - single exposure</b>	Not available.
<b>Specific target organ toxicity - repeated exposure</b>	Not available.
<b>Aspiration hazard</b>	Not available.
<b>Mixture versus substance information</b>	Not available.
<b>Other information</b>	Not available.

## **Section 12: Ecological information**

### **Toxicity**

<b>Product</b>	<b>Test results</b>
Molyube Multipurpose Extreme Pressure Grease with Moly 2 (Mixture)	EC50 Daphnia: 36222,22 mg/l 48 hours estimated LC50 Fish: 68326,02 mg/l 96 hours estimated

\* Estimates for product may be based on additional component data not shown.

<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulative potential</b>	Not available.
<b>Mobility</b>	Not available.
<b>Environmental fate - Partition coefficient</b>	Not available.
<b>Mobility in soil</b>	Not available.
<b>Results of PBT and vPvB assessment</b>	Not available.
<b>Other adverse effects</b>	Not available.

## **Section 13: Disposal considerations**

### **Waste treatment methods**

<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

## **Section 14: Transport information**

### **ADR**

Not regulated as dangerous goods.

**RID**

Not regulated as dangerous goods.

**ADN**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information available.

**Section 15: Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

**Other regulations** The product is classified and labelled in accordance with EC directives or respective national laws  
This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

**National regulations** Not available.

**Chemical safety assessment** No Chemical Safety Assessment has been carried out.

**Section 16: Other information**

**List of abbreviations** Not available.

**References** Not available.

**Information on evaluation method leading to the classification of mixture** Not available.

**Full text of any statements or R-phrases and H-phrases under Sections 2 to 15** R20/22 Harmful by inhalation and if swallowed.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
H302 - Harmful if swallowed.  
H332 - Harmful if inhaled.  
H411 - Toxic to aquatic life with long lasting effects.

**Revision information** IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING: Bel Ray Custom Labels  
Section 1: Identification of the substance/mixture and of the company/undertaking: Product use  
Section 2: Hazards identification: Prevention  
Section 3: Composition/information on ingredients: Composition comments

**Training information** Not available.

**Disclaimer** Bel-Ray Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

**Issue date** 09-August-2012

**Revision date** 09-August-2012

**Print date** 09-August-2012



# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name or designation of the mixture	Molyube Multipurpose Extreme Pressure Grease with Moly 460-2
Product code	40922
SDS number	6879
Registration number	-
Synonyms	Molyube AC 1000 2-460
Date of first issue	14-May-2011
Version number	1,2
Revision date	20-May-2013
Supersedes date	13-February-2012

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Not available.
Uses advised against	None known.

### 1.3. Details of the supplier of the safety data sheet

Bel-Ray Europe S.A.  
Avenue Louise, 304  
Bruxelles-Brussel, B-1050  
Belgium  
+32 (0) 2 540 84 52  
Europe: +32 (0) 2 201 18 87  
Europe Emergency: 112  
Bel-Ray Company, Inc.  
P.O. Box 526  
Farmingdale, NJ 07727  
United States of America  
+1 732 938 2421  
CHEMTREC: 800-424-9300 (USA)  
CHEMTREC: +1 703-527-3887 (outside USA - call collect)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification Xn;R20/22

The full text for all R-phrases is displayed in section 16.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Health hazards

Acute toxicity, oral	Category 4	Harmful if swallowed.
Acute toxicity, inhalation	Category 4	Harmful if inhaled.

##### Hazard summary

Physical hazards	Not classified for physical hazards.
Health hazards	Harmful by inhalation and if swallowed. Occupational exposure to the substance or mixture may cause adverse health effects.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	Not available.
Main symptoms	Not available.

### 2.2. Label elements

**Label according to Regulation (EC) No. 1272/2008 as amended****Contains:** Antimony Tris[o,o-dipropyl] Tris(dithiophosphate)**Hazard pictograms****Signal word** Danger**Hazard statements** Harmful if swallowed. Harmful if inhaled. May cause cancer.**Precautionary statements****Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapours. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Use personal protective equipment as required.**Response** IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth.**Storage** Store locked up.**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.**Supplemental label information** Not applicable.**2.3. Other hazards** Not assigned.**SECTION 3: Composition/information on ingredients****3.2. Mixtures****General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate)	1 - < 3	15874-48-3 240-001-5	-	051-003-00-9	
<b>Classification:</b>	<b>DSD:</b>	Xn;R20/22, N;R51/53			
	<b>CLP:</b>	Acute Tox. 4;H302, Acute Tox. 4;H332, Aquatic Chronic 2;H411			

Other components below reportable levels 90 - 100

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

#: This substance has been assigned Community workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.**SECTION 4: First aid measures****General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. IF exposed or concerned: Get medical advice/attention.**4.1. Description of first aid measures****Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTRE or doctor/physician if you feel unwell.**Skin contact** Rinse skin with water/shower. Get medical attention if irritation develops and persists.**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.**Ingestion** IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth. Do not induce vomiting. Never give liquid to an unconscious person.**4.2. Most important symptoms and effects, both acute and delayed** Not available.

**4.3. Indication of any immediate medical attention and special treatment needed**

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**SECTION 5: Firefighting measures**

**General fire hazards** Not available.

**5.1. Extinguishing media**

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Water. Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture** Not available.

**5.3. Advice for firefighters**

**Special protective equipment for firefighters** Wear suitable protective equipment.

**Special fire fighting procedures** Not available.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel** Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Fully encapsulating, vapour protective clothing should be worn for spills and leaks with no fire. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them.

**For emergency responders** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.

**6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so.

**6.3. Methods and material for containment and cleaning up**

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

**6.4. Reference to other sections**

For personal protection, see section 8. For waste disposal, see section 13.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not taste or swallow. Avoid breathing vapour. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Hydrogen sulphide (H<sub>2</sub>S) may be given off when this material is heated. Do not depend on sense of smell for warning.

**7.2. Conditions for safe storage, including any incompatibilities**

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep out of the reach of children.

**7.3. Specific end use(s)**

Not available.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits**

**Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	MAK	0,5 mg/m <sup>3</sup>	Inhalable fraction.

**Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001**

Components	Type	Value	Form
	STEL	1,5 mg/m3	Inhalable fraction.

**Belgium. Exposure Limit Values.**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m3
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	Ceiling	1,5 mg/m3	
	TWA	0,5 mg/m3	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	Ceiling	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol
White mineral oil (petroleum) (8042-47-5)	Ceiling	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

**Denmark. Exposure Limit Values**

Components	Type	Value	Form
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TLV	1 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TLV	1 mg/m3	Mist.

**Finland. Workplace Exposure Limits**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m3	Mist.



**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	VME	0,5 mg/m3

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Mist.

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	STEL	2 mg/m3	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	0,5 mg/m3	
	Ceiling	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	Ceiling	5 mg/m3	Mist.

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	Dust.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	1 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	1 mg/m3	Mist.

**Ireland. Occupational Exposure Limits**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	0,2 mg/m3	Inhalable fraction.
White mineral oil (petroleum) (8042-47-5)	TWA	0,2 mg/m3	Inhalable fraction.

**Italy. Occupational Exposure Limits**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Inhalable fraction.

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

Components	Type	Value	Form
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.
White mineral oil (petroleum) (8042-47-5)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.

**Netherlands. OELs (binding)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m <sup>3</sup>	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m <sup>3</sup>	Mist.

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TLV	0,5 mg/m <sup>3</sup>	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TLV	1 mg/m <sup>3</sup>	Mist.
White mineral oil (petroleum) (8042-47-5)	TLV	1 mg/m <sup>3</sup>	Mist.

**Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	10 mg/m <sup>3</sup>	Aerosol
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
	TWA	5 mg/m <sup>3</sup>	Aerosol

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	10 mg/m <sup>3</sup>	Aerosol
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m <sup>3</sup>	Aerosol
	STEL	10 mg/m <sup>3</sup>	Aerosol
	TWA	5 mg/m <sup>3</sup>	Aerosol

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value	Form
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	10 mg/m <sup>3</sup>	
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m <sup>3</sup>	
	STEL	10 mg/m <sup>3</sup>	
	TWA	5 mg/m <sup>3</sup>	

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m <sup>3</sup>	
White mineral oil (petroleum) (8042-47-5)	TWA	1 mg/m <sup>3</sup>	Fume and mist.
		5 ppm	Fume and mist.

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	Inhalable fraction.

**Spain. Occupational Exposure Limits**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	10 mg/m3	Mist.
White mineral oil (petroleum ) (8042-47-5)	TWA	5 mg/m3	Mist.
	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

**Sweden. Occupational Exposure Limit Values**

Components	Type	Value	Form
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,25 mg/m3	Inhalable dust.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	3 mg/m3	Mist.
White mineral oil (petroleum ) (8042-47-5)	TWA	1 mg/m3	Mist.
	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value
Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (15874-48-3)	TWA	0,5 mg/m3

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**8.2. Exposure controls**

**Appropriate engineering controls** Provide adequate general and local exhaust ventilation.

**Individual protection measures, such as personal protective equipment**

**General information** Use personal protective equipment as required.

**Eye/face protection** Use personal protective equipment as required.

**Skin protection**

**- Hand protection** Use personal protective equipment as required.

**- Other** Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Not available.

**Hygiene measures** When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practices.

**Environmental exposure controls** Not available.

**SECTION 9: Physical and chemical properties**

**Information on basic physical and chemical properties**

**Appearance** Grease

**Appearance**

**Physical state** Liquid.

<b>Form</b>	Grease Grease
<b>Colour</b>	Dark grey. Dark grey.
<b>Odour</b>	Petroleum
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	360 °C (680 °F) estimated
<b>Flash point</b>	262,00 °C (503,60 °F) Pensky-Martens Closed Cup (Base Oil)
<b>Auto-ignition temperature</b>	260 °C (500 °F) estimated
<b>Information on basic physical and chemical properties</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapour pressure</b>	0,000010998 hPa estimated
<b>Density</b>	900,00 kg/m <sup>3</sup>
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Negligible
<b>Solubility (other)</b>	Oil
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	460 cSt
<b>Viscosity temperature</b>	40 °C (104 °F) ASTM D445
<b>VOC (Weight %)</b>	0,035 % estimated
<b>Percent volatile</b>	0,035 % estimated
<b>Other data</b>	
<b>Drop point</b>	261 °C (501,8 °F)
<b>Flammability class</b>	Combustible IIIB estimated
<b>Specific gravity</b>	0,9
<b>9.2. Other information</b>	No relevant additional information available.

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	None known. Strong oxidizing agents.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	Not available.
<b>10.4. Conditions to avoid</b>	Avoid temperatures exceeding the flash point.
<b>10.5. Incompatible materials</b>	None known.
<b>10.6. Hazardous decomposition products</b>	No dangerous reaction known under conditions of normal use. At thermal decomposition temperatures, carbon monoxide and carbon dioxide. Hydrogen sulfide. Mercaptans.

## SECTION 11: Toxicological information

<b>General information</b>	Not available.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	Harmful if inhaled.
<b>Skin contact</b>	Not available.
<b>Eye contact</b>	Not available.
<b>Symptoms</b>	Not available.

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	Harmful if inhaled. Harmful if swallowed.
<b>Skin corrosion/irritation</b>	Not available.
<b>Serious eye damage/irritation</b>	Not available.
<b>Respiratory sensitisation</b>	Not available.
<b>Skin sensitisation</b>	Not available.
<b>Germ cell mutagenicity</b>	Not available.
<b>Carcinogenicity</b>	May cause cancer.
<b>Reproductive toxicity</b>	Not available.
<b>Specific target organ toxicity - single exposure</b>	Not available.
<b>Specific target organ toxicity - repeated exposure</b>	Not available.
<b>Aspiration hazard</b>	Not available.
<b>Mixture versus substance information</b>	Not available.
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

**12.1. Toxicity** Not expected to be harmful to aquatic organisms.

<b>Product</b>	<b>Species</b>	<b>Test results</b>	
Molylube Multipurpose Extreme Pressure Grease with Moly 460-2 (Mixture)			
Crustacea	EC50	Daphnia	36222,2227 mg/l, 48 hours, estimated
Fish	LC50	Fish	68326,0156 mg/l, 96 hours, estimated

\* Estimates for product may be based on additional component data not shown.

**12.2. Persistence and degradability** No data is available on the degradability of this product.

**12.3. Bioaccumulative potential** Not available.

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** Not available.

**12.5. Results of PBT and vPvB assessment** Not a PBT or vPvB substance or mixture.

**12.6. Other adverse effects** Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**EU waste code** The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Disposal methods/information** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

## SECTION 14: Transport information

### ADR

Not regulated as dangerous goods.

**RID**

Not regulated as dangerous goods.

**ADN**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Authorisations****Restrictions on use****Other EU regulations**

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

Antimony Tris[o,o-dipropyl] Tris(dithiophosphate) (CAS 15874-48-3)

**Other regulations**

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. Pregnant women should not work with the product, if there is the least risk of exposure.

**National regulations**

Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work.

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

**List of abbreviations** Not available.

**References** Not available.

**Information on evaluation method leading to the classification of mixture** Not available.

**Full text of any statements or R-phrases and H-statements under Sections 2 to 15**  
R20/22 Harmful by inhalation and if swallowed.  
R51/53 Toxic to aquatic organisms, May cause long-term adverse effects in the aquatic environment.  
H302 - Harmful if swallowed.  
H332 - Harmful if inhaled.  
H411 - Toxic to aquatic life with long lasting effects.

**Revision information**  
IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING:  
IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING  
Composition/Information on Ingredients: Ingredients  
Physical & Chemical Properties: Multiple Properties  
SECTION 9: Physical and chemical properties: Appearance  
SECTION 9: Physical and chemical properties: Colour

**Training information** Not available.

**Disclaimer** Bel-Ray Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

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