



SAFETY DATA SHEET

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

Product identifier

Trade name or designation of the mixture Molylube Slew Gear Grease

Product code 70530

SDS number 6500

Registration number -

Synonyms None.

Date of first issue 11-November-2011

Version number 1,1

Revision date 11-November-2011

Supersedes date 10-May-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

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

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

Health hazards

Serious eye damage/eye irritation

Category 2

Causes serious eye irritation.

Hazard summary

Physical hazards Not classified for physical hazards.

Health hazards Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.

Environmental hazards Not classified for hazards to the environment.

Specific hazards Not available.

Main symptoms Irritation of eyes and mucous membranes.

Label elements

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



Signal word	Warning
Hazard statements	Causes serious eye irritation.
Precautionary statements	
Prevention	Wash thoroughly after handling. Wear eye/face protection.
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage	Not available.
Disposal	Not available.
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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Residual Oils (petroleum), Solvent-refined	0 - < 80	64742-01-4 265-101-6	-	649-459-00-4	#
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Classification: **DSD:** -
 CLP: -

White mineral oil (petroleum)	0 - < 80	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: -

Graphite	5 - < 10	7782-42-5 231-955-3	-	-	
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Classification: **DSD:** -
 CLP: -

Other components below reportable levels 10 - < 20

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.

Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

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

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth. Do not induce vomiting. If ingestion of a large amount does occur, call a poison control centre immediately. Never give liquid to an unconscious person.

Most important symptoms and effects, both acute and delayed

Irritation of eyes and mucous membranes.

Indication of any immediate medical attention and special treatment needed

Not available.

Section 5: Firefighting measures

General fire hazards

Not available.

Extinguishing media

Suitable extinguishing media

Water fog. Foam. Dry chemical 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

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. Keep people away from and upwind of spill/leak. Ensure adequate ventilation.

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

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

Avoid contact with eyes. Avoid prolonged exposure. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

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

No exposure limits noted for the ingredient(s).

Belgium. Exposure Limit Values.

Components	Type	Value	Form
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	10 mg/m ³	Mist.

Belgium. Exposure Limit Values.

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

Cyprus

No exposure limits noted for the ingredient(s).

Czech Republic. OELs. Government Decree 361

Components	Type	Value	Form
Residual Oils (petroleum), Solvent-refined (64742-01-4)	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
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.

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

Components	Type	Value	Form
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	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m3	Mist.

France

No exposure limits noted for the ingredient(s).

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
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
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	
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
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. OELs

Components	Type	Value	Form
Aluminum, (benzoato-o,o)hydroxy(octadecanoato-o,o)- (54326-11-3)	TWA	1 mg/m3	Respirable 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	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	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
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
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
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	10 mg/m ³	Aerosol
	TWA	5 mg/m ³	Aerosol
White mineral oil (petroleum) (8042-47-5)	STEL	10 mg/m ³	Aerosol
	TWA	5 mg/m ³	Aerosol

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

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

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

Components	Type	Value	Form
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m ³	Aerosol

Slovenia

No exposure limits noted for the ingredient(s).

Spain. Occupational Exposure Limits

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

Sweden. Occupational Exposure Limit Values

Components	Type	Value	Form
Aluminum, (benzoato-o,o)hydroxy(octadecanoato-o,o)- (54326-11-3)	TWA	1 mg/m ³	Total dust.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	3 mg/m ³	Mist.
	TWA	1 mg/m ³	Mist.
White mineral oil (petroleum) (8042-47-5)	STEL	3 mg/m ³	Mist.
	TWA	1 mg/m ³	Mist.

Switzerland

No exposure limits noted for the ingredient(s).

United Kingdom

No exposure limits noted for the ingredient(s).

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 Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide adequate general and local exhaust ventilation.

Individual protection measures, such as personal protective equipment

General information Eye wash fountain is recommended.

Eye/face protection Wear eye/face protection.

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 When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Thermal hazards Not available.

Hygiene measures Avoid contact with eyes. 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 Dark grey.

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 262 °C (503,6 °F) Pensky-Martens Closed Cup

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	906,9 kg/m ³
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	642 cSt
Viscosity temperature	40 °C (104 °F)
VOC (Weight %)	0,9 % estimated
Percent volatile	Not available.

Other data

Flammability class Combustible IIIB estimated

Specific gravity 0,91

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.

Section 11: Toxicological information

General information	Not available.
Information on likely routes of exposure	
Ingestion	Not available.
Inhalation	Not available.
Skin contact	Not available.
Eye contact	Causes serious eye irritation.
Symptoms	Not available.
Information on toxicological effects	
Acute toxicity	Not available.
Skin corrosion/irritation	Not available.
Serious eye damage/eye irritation	Causes serious eye irritation.
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.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	Not available.
Mixture versus substance information	Not available.
Other information	Not available.

Section 12: Ecological information

Toxicity

Product	Test results
Molyube Slew Gear Grease (Mixture)	EC50 Daphnia: 90555,55 mg/l 48 hours estimated

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

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

Section 13: Disposal considerations

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. 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 None.

Revision information This document has undergone significant changes and should be reviewed in its entirety.

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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