



# 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** LPS® Precision Clean (Aerosol)  
**Registration number** -  
**Synonyms** None.  
**Part Number** 02720, M02720  
**Issue date** 19-October-2015  
**Version number** 01

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

**Identified uses** An industrial cleaner designed to remove grime, oils and light grease from metal, concrete and other durable surfaces.  
**Uses advised against** None known.

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

**Supplier** AlSCO Ltd  
**Company name** Unit 13 Hillmead Industrial Estate  
**Address** Marshall Road  
Swindon, Wiltshire  
United Kingdom SN5 5FZ  
**Telephone** +44 1793 733 900  
**In Case of Emergency** +001 703-527-3887  
**Manufacturer**  
**Company name** ITW Pro Brands  
**Address** 4647 Hugh Howell Rd., Tucker, GA 30084 (U.S.A.)  
**Website** <http://www.lpslabs.com>  
**e-mail** [lpssds@itwprobrands.com](mailto:lpssds@itwprobrands.com)

## 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** E;R2

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

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

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

#### Physical hazards

Aerosols	Category 3	H229 - Pressurized container: May burst if heated.
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#### Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.

#### Hazard summary

**Physical hazards** Risk of explosion by shock, friction, fire or other sources of ignition.  
**Health hazards** Not classified for health hazards.  
**Environmental hazards** Not classified for hazards to the environment.  
**Specific hazards** Irritating to eyes and skin.  
**Main symptoms** Irritant effects. Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

### 2.2. Label elements

**Label according to Regulation (EC) No. 1272/2008 as amended****Contains:** Petroleum Gases, Liquefied, Sweetened**Hazard pictograms****Signal word** Warning**Hazard statements**

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H229 Pressurized container: May burst if heated.

**Precautionary statements****Prevention**

P264 Wash thoroughly after handling.  
 P280 Wear protective gloves.  
 P280 Wear eye/face protection.  
 P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P251 Do not pierce or burn, even after use.

**Response**

P302 + P352 IF ON SKIN: Wash with plenty of water.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P321 Specific treatment (see this label).  
 P332 + P313 If skin irritation occurs: Get medical advice/attention.  
 P337 + P313 If eye irritation persists: Get medical advice/attention.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.

**Storage**

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information** Not applicable.**2.3. Other hazards** None known.**SECTION 3: Composition/information on ingredients****3.2. Mixtures****General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Petroleum Gases, Liquefied, Sweetened	1 - 5	68476-86-8 270-705-8	-	649-203-00-1	
<b>Classification:</b>					
<b>DSD:</b>	F+;R12, Carc. Cat. 1;R45, Muta. Cat. 2;R46				K,S
<b>CLP:</b>	Muta. 1B;H340, Carc. 1A;H350				K,S,U

**List of abbreviations and symbols that may be used above**

CLP: Regulation No. 1272/2008.  
 DSD: Directive 67/548/EEC.  
 M: M-factor  
 vPvB: very persistent and very bioaccumulative substance.  
 PBT: persistent, bioaccumulative and toxic substance.  
 #: This substance has been assigned Community workplace exposure limit(s).

Note K: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w 1,3-butadiene (EINECS No 203-450-8).

Note S: This substance may not require a label according to Article 17 (see section 1.3 of Annex I) (Table 3.1). This substance may not require a label according to Article 23 of Directive 67/548/EEC (see section 8 of Annex VI to that Directive) (Table 3.2).

Note U: When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

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

## SECTION 4: First aid measures

<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
<b>4.1. Description of first aid measures</b>	
<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Direct contact with eyes may cause temporary irritation.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically.

## SECTION 5: Firefighting measures

<b>General fire hazards</b>	None known.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ). Water spray, fog or regular foam.
<b>Unsuitable extinguishing media</b>	None known.
<b>5.2. Special hazards arising from the substance or mixture</b>	Pressurised container may explode when exposed to heat or flame.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Special fire fighting procedures</b>	Containers should be cooled with water to prevent vapor pressure build up.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
<b>For emergency responders</b>	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
<b>6.2. Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.
<b>6.3. Methods and material for containment and cleaning up</b>	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 to original containers for re-use.
<b>6.4. Reference to other sections</b>	Use personal protection recommended in Section 8 of the SDS. For waste disposal, see section 13.

## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Contents under pressure. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.
<b>7.3. Specific end use(s)</b>	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
Copper, Copper Compounds (CAS 7440-50-8)	MAK	1 mg/m <sup>3</sup>	Inhalable fraction.
		0,1 mg/m <sup>3</sup>	Fume and respirable dust.
	STEL	4 mg/m <sup>3</sup> 0,4 mg/m <sup>3</sup>	Inhalable fraction. Fume and respirable dust.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	Ceiling	614 mg/m <sup>3</sup>	
	MAK	100 ppm 307 mg/m <sup>3</sup> 50 ppm	

##### Belgium. Exposure Limit Values.

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	TWA	1 mg/m <sup>3</sup>	Dust and mist.
		0,2 mg/m <sup>3</sup>	Fume.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m <sup>3</sup> 50 ppm	

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

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	TWA	0,1 mg/m <sup>3</sup>	
		308 mg/m <sup>3</sup>	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	50 ppm	

##### Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	MAC	0,21 mg/m <sup>3</sup>	Dust and fume.
	STEL	2 mg/m <sup>3</sup>	Dust and fume.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	MAC	308 mg/m <sup>3</sup> 50 ppm	

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

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	TWA	0,2 mg/m <sup>3</sup>	Fume.

##### Czech Republic. OELs. Government Decree 361

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	Ceiling	2 mg/m <sup>3</sup>	Dust.
	TWA	0,2 mg/m <sup>3</sup> 1 mg/m <sup>3</sup>	Fume. Dust.
		0,1 mg/m <sup>3</sup>	Fume.

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

Components	Type	Value	Form
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	Ceiling	550 mg/m3	
	TWA	270 mg/m3	

**Denmark. Exposure Limit Values**

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	TLV	1 mg/m3	Dust.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TLV	0,1 mg/m3	Fume.
		309 mg/m3	
		50 ppm	

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)**

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	TWA	1 mg/m3	Total dust.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	0,2 mg/m3	Respirable dust.
		308 mg/m3	
		50 ppm	

**Finland. Workplace Exposure Limits**

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	TWA	1 mg/m3	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	0,1 mg/m3	Respirable dust and/or fume.
		310 mg/m3	
		50 ppm	

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

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	VLE	2 mg/m3	Dust.
	VME	1 mg/m3	Dust.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	VME	0,2 mg/m3	Fume.
		308 mg/m3	
		50 ppm	

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	TWA	0,01 mg/m3	Respirable fraction.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	310 mg/m3	
		50 ppm	

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value	Form
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	AGW	310 mg/m3	Vapor and aerosol.

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value	Form
		50 ppm	Vapor and aerosol.

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

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	STEL	2 mg/m3	Dust.
	TWA	1 mg/m3 0,2 mg/m3	Dust. Fume.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	900 mg/m3	
	TWA	150 ppm 600 mg/m3 100 ppm	

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

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	STEL	4 mg/m3	
	TWA	0,4 mg/m3 1 mg/m3	Smoke.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	0,1 mg/m3 308 mg/m3	Smoke.
	TWA	308 mg/m3	

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

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	TWA	1 mg/m3	Total dust.
		0,1 mg/m3	Respirable dust.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	300 mg/m3	
		50 ppm	

**Ireland. Occupational Exposure Limits**

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	STEL	2 mg/m3	Dust and mist.
	TWA	1 mg/m3 0,2 mg/m3	Dust and mist. Fume.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m3	
		50 ppm	

**Italy. Occupational Exposure Limits**

Components	Type	Value
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m3
		50 ppm

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Components	Type	Value
Copper, Copper Compounds (CAS 7440-50-8)	STEL	1 mg/m3
	TWA	0,5 mg/m3

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Components	Type	Value
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m3 50 ppm

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

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	TWA	1 mg/m3	Inhalable fraction.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	0,2 mg/m3 450 mg/m3	Respirable fraction.
	TWA	75 ppm 300 mg/m3 50 ppm	

**Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)**

Components	Type	Value
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m3 50 ppm

**Netherlands. OELs (binding)**

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	TWA	0,1 mg/m3	Inhalable fraction.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	300 mg/m3	

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

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	TLV	1 mg/m3	Dust.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TLV	0,1 mg/m3 300 mg/m3 50 ppm	Fume.

**Poland. MACs. Regulation regarding maximum permissible concentrations and intensities of harmful factors in the work environment, Annex 1**

Components	Type	Value
Copper, Copper Compounds (CAS 7440-50-8)	TWA	0,2 mg/m3
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	480 mg/m3
	TWA	240 mg/m3

**Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)**

Components	Type	Value
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m3 50 ppm

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

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.

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

Components	Type	Value	Form
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	0,2 mg/m3 150 ppm	Fume.
	TWA	100 ppm	

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

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	STEL	1,5 mg/m3	Dust.
	TWA	0,2 mg/m3 0,5 mg/m3	Fume. Dust.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	500 mg/m3	
	TWA	3 ppm 300 mg/m3 18 ppm	

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

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	TWA	1 mg/m3	Inhalable fraction.
	TWA	0,2 mg/m3 308 mg/m3	Respirable fume.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	50 ppm	

**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
Copper, Copper Compounds (CAS 7440-50-8)	TWA	1 mg/m3	Inhalable fraction.
	TWA	0,1 mg/m3 308 mg/m3	Respirable fume.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	50 ppm	

**Spain. Occupational Exposure Limits**

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
	TWA	0,2 mg/m3 308 mg/m3	Fume.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	50 ppm	

**Sweden. Occupational Exposure Limit Values**

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	TWA	1 mg/m3	Total dust.
	STEL	0,2 mg/m3 450 mg/m3	Respirable dust.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	75 ppm 300 mg/m3 50 ppm	



**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	STEL	0,2 mg/m <sup>3</sup>	Inhalable dust.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	0,1 mg/m <sup>3</sup>	Inhalable dust.
	STEL	300 mg/m <sup>3</sup>	
	TWA	50 ppm 300 mg/m <sup>3</sup> 50 ppm	

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

Components	Type	Value	Form
Copper, Copper Compounds (CAS 7440-50-8)	STEL	2 mg/m <sup>3</sup>	Inhalable dusts and mists.
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	1 mg/m <sup>3</sup>	Inhalable dusts and mists.
	TWA	0,2 mg/m <sup>3</sup>	
			308 mg/m <sup>3</sup>
		50 ppm	

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU**

Components	Type	Value
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m <sup>3</sup>
		50 ppm

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

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

**Derived no-effect level (DNEL)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

**Exposure guidelines****EU Exposure Limit Values: Skin designation**

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

**8.2. 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.

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

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

**Eye/face protection** Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.

**Skin protection**

**- Hand protection** Wear appropriate chemical resistant gloves.

**- Other** Wear suitable protective clothing.

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

**Thermal hazards** None known.

**Hygiene measures** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls** Environmental manager must be informed of all major releases.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

## Appearance

<b>Physical state</b>	Gas.
<b>Form</b>	Aerosol
<b>Colour</b>	Greenish-blue.
<b>Odour</b>	Citrus
<b>Odour threshold</b>	Not available.
<b>pH</b>	12,9
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	100 °C (212 °F)
<b>Flash point</b>	Not established
<b>Evaporation rate</b>	1 BuAc
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not established
<b>Flammability limit - upper (%)</b>	Not established
<b>Vapour pressure</b>	< 17,5 mm Hg @20°C
<b>Vapour density</b>	> 1
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	100 % (in water)
<b>Solubility (other)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	< 3 cSt
<b>Viscosity temperature</b>	25 °C (77 °F)
<b>Explosive properties</b>	Not available.
<b>Oxidising properties</b>	Not available.
<b>9.2. Other information</b>	
<b>Heat of combustion</b>	< 20 kJ/g
<b>Percent volatile</b>	> 97 %
<b>Specific gravity</b>	1 - 1,03 @ 20°C
<b>VOC (Weight %)</b>	5,8 % per U.S State and Federal Consumer Product Regulations.

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	This product may react with 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 heat, sparks, open flames and other ignition sources.
<b>10.5. Incompatible materials</b>	Strong oxidising agents. Acids.
<b>10.6. Hazardous decomposition products</b>	Carbon oxides.

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms** Exposure may cause temporary irritation, redness, or discomfort.

### 11.1. Information on toxicological effects

**Acute toxicity** Not expected to be acutely toxic.

<b>Components</b>	<b>Species</b>	<b>Test results</b>
Copper, Copper Compounds (CAS 7440-50-8)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg, 24 Hours
<b>Inhalation</b>		
LC50	Rat	> 5,11 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	481 mg/kg
Dipropylene glycol monomethyl ether (CAS 34590-94-8)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 19020 mg/kg, 24 Hours 10 ml/kg, 24 Hours 9,5 g/kg
	Rat	> 19020 mg/kg, Hours > 20 ml/kg, Hours
<b>Oral</b>		
LD50	Dog	7,5 ml/kg
	Rat	> 5000 mg/kg 5,4 ml/kg
Petroleum Gases, Liquified, Sweetened (CAS 68476-86-8)		
<b>Acute</b>		
<b>Inhalation</b>		
<i>Gas</i>		
LC50	Mouse	1237 mg/l, 120 Minutes 52 %, 120 Minutes
LC50	Rat	1355 mg/l
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Respiratory sensitisation</b>	Not a respiratory sensitizer.	
<b>Skin sensitisation</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	Not classified.	
<b>Specific target organ toxicity - repeated exposure</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Aspiration hazard</b>	Not classified.	
<b>Mixture versus substance information</b>	No information available.	
<b>Other information</b>	Not available.	

## SECTION 12: Ecological information

**12.1. Toxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test results
Copper, Copper Compounds (CAS 7440-50-8)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna) 0,036 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 0,0319 - 0,0544 mg/l, 96 hours
<b>12.2. Persistence and degradability</b>	Expected to biodegrade.	
<b>12.3. Bioaccumulative potential</b>	No data available.	
<b>Bioconcentration factor (BCF)</b>	Not available.	
<b>12.4. Mobility in soil</b>	Readily absorbed into soil.	
<b>12.5. Results of PBT and vPvB assessment</b>	Not available.	
<b>12.6. Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

## SECTION 13: Disposal considerations

### 13.1. 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. Do not re-use empty containers.
<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. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

<b>14.1. UN number</b>	UN1950
<b>14.2. UN proper shipping name</b>	AEROSOLS, non-flammable
<b>14.3. Transport hazard class(es)</b>	
Class	2.2
Subsidiary risk	-
Label(s)	2.2
Hazard No. (ADR)	Not available.
Tunnel restriction code	D
<b>14.4. Packing group</b>	Not applicable.
<b>14.5. Environmental hazards</b>	No.
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

### RID

<b>14.1. UN number</b>	UN1950
<b>14.2. UN proper shipping name</b>	AEROSOLS, non-flammable
<b>14.3. Transport hazard class(es)</b>	
Class	2.2
Subsidiary risk	-
Label(s)	2.2
<b>14.4. Packing group</b>	Not applicable.
<b>14.5. Environmental hazards</b>	No.
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

### ADN

<b>14.1. UN number</b>	Not available.
<b>14.2. UN proper shipping name</b>	AEROSOLS, non-flammable

#### 14.3. Transport hazard class(es)

Class 2.2  
Subsidiary risk -  
Label(s) 2.2

14.4. Packing group Not applicable.

14.5. Environmental hazards No.

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

#### IATA

14.1. UN number UN1950

14.2. UN proper shipping name AEROSOLS, non-flammable

#### 14.3. Transport hazard class(es)

Class 2.2  
Subsidiary risk -  
Label(s) 2.2

14.4. Packing group Not applicable.

14.5. Environmental hazards No.

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

#### Other information

Passenger and cargo aircraft Allowed.

Cargo aircraft only Allowed.

#### IMDG

14.1. UN number UN1950

14.2. UN proper shipping name AEROSOLS, non-flammable

#### 14.3. Transport hazard class(es)

Class 2.2  
Subsidiary risk -  
Label(s) 2.2

14.4. Packing group Not applicable.

#### 14.5. Environmental hazards

Marine pollutant No.

EmS F-D, S-U

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

ADN; ADR; IATA; IMDG; RID



## SECTION 15: Regulatory information

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

#### EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**  
Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**  
Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**  
Not listed.

#### **Authorisations**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**  
Not listed.

#### **Restrictions on use**

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**  
Petroleum Gases, Liquified, Sweetened (CAS 68476-86-8)

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended**

Petroleum Gases, Liquified, Sweetened (CAS 68476-86-8)

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended**

Petroleum Gases, Liquified, Sweetened (CAS 68476-86-8)

#### **Other EU regulations**

**Directive 2012/18/EU on major accident hazards involving dangerous substances**

Petroleum Gases, Liquified, Sweetened (CAS 68476-86-8)

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

Petroleum Gases, Liquified, Sweetened (CAS 68476-86-8)

**Directive 94/33/EC on the protection of young people at work, as amended**

Petroleum Gases, Liquified, Sweetened (CAS 68476-86-8)

#### **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**

Follow national regulation for work with chemical agents.

#### **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**

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

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

R12 Extremely flammable.  
R2 Risk of explosion by shock, friction, fire or other sources of ignition.  
R45 May cause cancer.  
R46 May cause heritable genetic damage.  
H340 May cause genetic defects.  
H350 May cause cancer.

#### **Revision information**

Product and Company Identification: Product and Company Identification  
SECTION 2: Hazards identification: Hazard summary  
Composition / Information on Ingredients: Disclosure Overrides  
Physical & Chemical Properties: Multiple Properties  
SECTION 11: Toxicological information: Acute toxicity  
SECTION 11: Toxicological information: Respiratory sensitisation

#### **Training information**

Follow training instructions when handling this material.

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.