



FOOD GRADE CHAIN LUBRICANT

Food Grade Chain Lubricant is a water resistant lubricant designed primarily for the effective lubrication of all types of chains and conveyors operating in food environments. The aerosol package features DETEX™ metal & x-ray detectable plastic components.



*Aerosol only

FEATURES

- Oily, wet film extends chain life
- Foaming action provides deep penetration and lubrication of chain, bushings and pins
- Resists sling-off and water wash-out
- Low flammability with a high flash point
- Excellent for applications involving incidental food contact on food processing equipment
- NSF® Registered H1
- Metal & x-ray detectable plastic aerosol components (see back for more details)

SPECIFICATIONS AND APPROVALS

- Meets FDA Regulation 21 C.F.R. 178.3570 for incidental food contact
- NSF® Certified: H1 Registration # 132899 (aerosol), #148090 (bulk)
- Acceptable for use in Canadian food processing establishments



APPLICATIONS

- Chains
- Channels
- Conveyors
- Filling Equipment
- Food Racks
- Food Service Carts
- Open Drives
- Rollers
- Sliding Tracks

PACKAGE SIZE

Net Contents
 12 wt. oz. / 340 g / 430 mL
 5 gal. (18.93 L) pail

Part No.
 06016
 06005



FOOD GRADE CHAIN LUBRICANT

PROPERTIES

Appearance	Thick Liquid	Flash point	Aerosol: - 20°F (- 29°C) dispensed liquid Bulk: >405°F (207°C)
Odor	Aerosol: Mild, Hydrocarbon Bulk: None	Solubility	Not soluble in water
Color	Clear, colorless	Heat of combustion	> 30 kJ/g
Specific gravity	Aerosol: 0.84 – 0.86 @ 20°C Bulk: 0.84 – 0.87 @ 20°C	VOC Content	Aerosol: 19%, 164 g/L, 1.4 lb/gal per State and Federal Consumer Products Regulations Bulk: 0%, 0 g/L, 0 lb/gal per State and Federal Consumer Products Regulations

MATERIAL SAFETY DATA SHEETS AVAILABLE UPON REQUEST OR VISIT OUR WEB SITE : WWW.LPSLABS.COM



Scan to see DETEX™ in action!

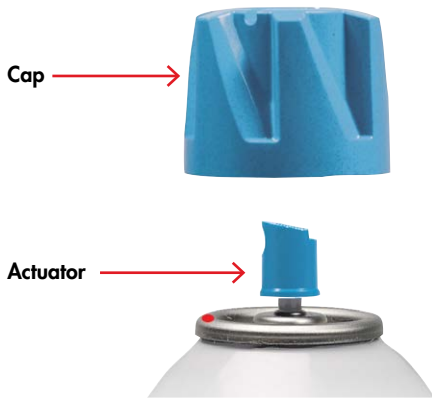


METAL & X-RAY DETECTABLE PLASTIC AEROSOL COMPONENTS

(PATENT PENDING)

LPS® is a leading food-grade MRO chemical manufacturer that developed the innovative technology, DETEX™, to help reduce the risk of foreign object contamination during food and beverage processing. All DETEX™ components on LPS® food industry products are metal and x-ray detectable.

Universal blue color for all metal and x-ray detectable plastic components easily identifies them as a non-food object.



Cap →

Actuator →

ADDITIONAL AEROSOL FEATURES:

- Certified food safe container
- Dual language labeling: English and Spanish
- 2-piece aerosol can; 10% – 15% lighter than a 3-piece aerosol can

FEATURES		BENEFITS	
All plastic components are metal and x-ray detectable and are capable of detection by most metal detection equipment.		Reduce concerns of food product contamination and assist with HACCP requirements.	
All DETEX™ plastic component ingredients are GRAS listed (Generally Recognized As Safe - FDA 21 C.F.R. Sections 177 and 178).		Meets FDA requirements as an acceptable material for use in food processing plants.	
LPS® food safe maintenance chemicals have prominently displayed NSF® category labeling. This ensures only food safe products are used for maintenance during processing.		Distinct labeling helps to prevent use of non NSF® approved LPS® products in the food processing area.	
Aerosol can is in compliance with the Food Safety Net Services (FSNS). FDA 21 C.F.R.175.300, 1935/2004/EC.		Aerosol can does not contain: Heavy metals, BADGE, BFDGE, NOGE, and Bisphenol-A (BPA).	
COMPONENT	DRY MODE	WET MODE	
Actuator	2.2 mm	2.5 mm	
Cap	3.0 mm	> 3.0 mm	

NOTE

1. Detection limits for a particular machine depend on a variety of factors including line speed, contaminant placement and orientation, iron fortification (i.e.; flour), wet mode vs. dry mode, fragment size, aperture size, etc. It is the responsibility of the end-user to determine the detection limits of the appropriate DETEX™ component for the individual line set up and for the particular food product being inspected.
2. Metal and x-ray detection limits for plastic components (above) are based on whole components. Partial components may not be detectable due to detector limitations, partial component size, malfunctioning equipment and/or the type of food product undergoing processing.
3. LPS® Laboratories recommends that all components be tested prior to implementation (separately and included in the processed food product) and/or consult your specific metal detector equipment manufacturer directly.
4. Product shelf life, warranty, and material safety data sheets are available at www.lpslabs.com. LPS® Laboratories is not responsible for use of this product inconsistent with its instructions and warnings.
5. LPS® Laboratories is not responsible for failure to detect components due to detector limitations and/or detector malfunctions. Refer to the metal detector manufacturer's design limitations, instructions, and warnings regarding the use, limitations, and proper maintenance of the equipment.

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Internet Web Site: www.lpslabs.com

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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® Food Grade Chain Lubricant
Registration number	-
Synonyms	None.
Part Number	06016, M06016
Issue date	02-January-2013
Version number	03
Revision date	03-October-2013
Supersedes date	22-September-2013

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

Identified uses	A food grade chain lubricant for parts and equipment.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Supplier	Geocel Limited
Company name	Western Wood Way, Langage Science Park, Plympton,
Address	Plymouth, PL7 5BG United Kingdom
Telephone	+44 (0)1752 202060 / +44 (0)1752 334384
In Case of Emergency	+001 703-527-3887
Manufacturer	
Company name	LPS Laboratories, a division of Illinois Tool Works, Inc.
Address	4647 Hugh Howell Rd., Tucker, GA 30084 (U.S.A.)
Website	http://www.lpslabs.com
e-mail	sds@lpslabs.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 R10

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

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

Physical hazards

Flammable aerosols Category 2 H223 - Flammable aerosol.

Hazard summary

Physical hazards	Flammable.
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	May cause central nervous system effects. Do not breathe vapours, aerosols.
Main symptoms	Irritant effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Decrease in motor functions. Behavioural changes. Coughing. Shortness of breath. Prolonged exposure may cause chronic effects.

2.2. Label elements

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

Hazard pictograms



Signal word

Warning

Hazard statements

H223

Flammable aerosol.

Precautionary statements

Prevention

P210

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P211

Do not spray on an open flame or other ignition source.

P251

Pressurised container: Do not pierce or burn, even after use.

Response

Not available.

Storage

P410 + P412

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

Disposal

Not available.

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
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White mineral oil	60 - < 70	8042-47-5 232-455-8	-	-	
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Classification: DSD: Xn;R20
CLP: -

Polybutene (Isobutylene/butene copolymer)	20 - < 30	9003-29-6 500-004-7	-	-	
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Classification: DSD: Xn;R20
CLP: -

Petroleum Gases, Liquified, Sweetened	10 - < 20	68476-86-8 270-705-8	-	649-203-00-1	Note K
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Classification: DSD: F+;R12, Carc. Cat. 1;R45, Muta. Cat. 2;R46
CLP: Muta. 1B;H340, Carc. 1B;H350

2-Methylpentane	1 - < 3	107-83-5 203-523-4	-	601-007-00-7	
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Classification: DSD: F;R11, Xn;R65, Xi;R38, R67, N;R51/53
CLP: Flam. Liq. 2;H225, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, Aquatic Chronic 2;H411

Other components below reportable levels 1 - < 3

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).

Composition comments

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

SECTION 4: First aid measures

General information

IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician. Show this safety data sheet to the doctor in attendance.

4.1. Description of first aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. For breathing difficulties, oxygen may be necessary. Get medical attention if symptoms persist.
Skin contact	Wash off with warm water and soap. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.
Ingestion	If swallowed, do NOT induce vomiting. Call a physician or poison control centre immediately. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and delayed Irritant effects. Defatting of the skin. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause drowsiness or dizziness. Decrease in motor functions. Behavioural changes.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Symptoms of overexposure can include shortness of breath, drowsiness, headaches, confusion, decreased coordination, visual disturbances and vomiting, and are reversible if exposure is stopped. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Flammable aerosol.

5.1. Extinguishing media

Suitable extinguishing media Foam, water spray or fog. Dry chemical powder.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Water runoff can cause environmental damage.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Wear appropriate protective equipment and clothing during clean-up. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Ensure adequate ventilation. Avoid inhalation of vapours or mists. Use personal protection recommended in Section 8 of the SDS.

For emergency responders Keep unnecessary personnel away.

6.2. Environmental precautions Contact local authorities in case of spillage to drain/aquatic environment. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapours or divert vapour cloud drift. Prevent entry into waterways, sewer, basements or confined areas.

6.4. Reference to other sections Use personal protection recommended in Section 8 of the SDS. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. Take precautionary measures against static discharges. Do not get in eyes, on skin, on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities Keep out of the reach of children. Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Keep away from heat and sources of ignition. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

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
2,2-Dimethylbutane (CAS 75-83-2)	MAK	715 mg/m ³
	STEL	200 ppm 2860 mg/m ³ 800 ppm
2,3-Dimethylbutane (CAS 79-29-8)	MAK	715 mg/m ³
	STEL	200 ppm 2860 mg/m ³ 800 ppm
2-Methylpentane (CAS 107-83-5)	MAK	715 mg/m ³
	STEL	200 ppm 2860 mg/m ³ 800 ppm
3-Methylpentane (CAS 96-14-0)	MAK	715 mg/m ³
	STEL	200 ppm 2860 mg/m ³ 800 ppm

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

Components	Type	Value
2,2-Dimethylbutane (CAS 75-83-2)	TWA	50 mg/m ³

Finland. Workplace Exposure Limits

Components	Type	Value
2,2-Dimethylbutane (CAS 75-83-2)	STEL	2300 mg/m ³ 630 ppm
	TWA	1800 mg/m ³ 500 ppm
2,3-Dimethylbutane (CAS 79-29-8)	STEL	2300 mg/m ³ 630 ppm
	TWA	1800 mg/m ³ 500 ppm
2-Methylpentane (CAS 107-83-5)	STEL	2300 mg/m ³ 630 ppm
	TWA	1800 mg/m ³ 500 ppm
3-Methylpentane (CAS 96-14-0)	STEL	2300 mg/m ³ 630 ppm
	TWA	1800 mg/m ³ 500 ppm

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

Components	Type	Value
2,2-Dimethylbutane (CAS 75-83-2)	AGW	1800 mg/m ³ 500 ppm
	AGW	1800 mg/m ³ 500 ppm
2,3-Dimethylbutane (CAS 79-29-8)	AGW	1800 mg/m ³ 500 ppm
	AGW	1800 mg/m ³ 500 ppm

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

Components	Type	Value
3-Methylpentane (CAS 96-14-0)	AGW	1800 mg/m ³
		500 ppm

Italy. Occupational Exposure Limits

Components	Type	Value
2,2-Dimethylbutane (CAS 75-83-2)	STEL	1000 ppm
	TWA	500 ppm
2,3-Dimethylbutane (CAS 79-29-8)	STEL	1000 ppm
	TWA	500 ppm
2-Methylpentane (CAS 107-83-5)	STEL	1000 ppm
	TWA	500 ppm
3-Methylpentane (CAS 96-14-0)	STEL	1000 ppm
	TWA	500 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
2,2-Dimethylbutane (CAS 75-83-2)	TWA	720 mg/m ³
		200 ppm
2,3-Dimethylbutane (CAS 79-29-8)	TWA	720 mg/m ³
		200 ppm
2-Methylpentane (CAS 107-83-5)	TWA	720 mg/m ³
		200 ppm
3-Methylpentane (CAS 96-14-0)	TWA	720 mg/m ³
		200 ppm

Sweden. Occupational Exposure Limit Values

Components	Type	Value
2,2-Dimethylbutane (CAS 75-83-2)	STEL	1100 mg/m ³
		300 ppm
	TWA	700 mg/m ³ 200 ppm
2,3-Dimethylbutane (CAS 79-29-8)	STEL	1100 mg/m ³
		300 ppm
	TWA	700 mg/m ³ 200 ppm
2-Methylpentane (CAS 107-83-5)	STEL	1100 mg/m ³
		300 ppm
	TWA	700 mg/m ³ 200 ppm
3-Methylpentane (CAS 96-14-0)	STEL	1100 mg/m ³
		300 ppm
	TWA	700 mg/m ³ 200 ppm

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value
2,2-Dimethylbutane (CAS 75-83-2)	STEL	3600 mg/m ³
		1000 ppm
	TWA	1800 mg/m ³ 500 ppm

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value
2,3-Dimethylbutane (CAS 79-29-8)	STEL	3600 mg/m ³
	TWA	1000 ppm 1800 mg/m ³ 500 ppm
2-Methylpentane (CAS 107-83-5)	STEL	3600 mg/m ³
	TWA	1000 ppm 1800 mg/m ³ 500 ppm
3-Methylpentane (CAS 96-14-0)	STEL	3600 mg/m ³
	TWA	1000 ppm 1800 mg/m ³ 500 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.

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 Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain and emergency showers are recommended.

Skin protection

- Hand protection Chemical resistant gloves are recommended. Use protective gloves made of: Nitrile.

- Other Avoid contact with the skin. Use personal protective equipment as required.

Respiratory protection Avoid breathing dust/fume/gas/mist/vapours/spray. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

Thermal hazards None known.

Hygiene measures When using, do not eat, drink or smoke. Do not get in eyes, on skin, on clothing. 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 Contain spills and prevent releases and observe national regulations on emissions.

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

Appearance	Liquid.
Physical state	Gas.
Form	Aerosol
Colour	Clear, Colourless.
Odour	Mild. Hydrocarbon-like.
Odour threshold	Not established
pH	Not applicable
Melting point/freezing point	Not established
Initial boiling point and boiling range	174 °C (345,2 °F)
Flash point	-28,9 °C (-20,0 °F) Tag closed cup (dispensed liquid)
Evaporation rate	~8,1

Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	1 % (estimated)
Flammability limit - upper (%)	9,5 % (estimated)
Vapour pressure	2782 mm Hg @ 20°C
Vapour density	~3 (air=1)
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not soluble in water
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not established
Auto-ignition temperature	> 265 °C (> 509 °F)
Decomposition temperature	Not established
Viscosity	164 cP @ 25°C
Explosive properties	Not available.
Oxidizing properties	Not available.

9.2. Other information

Heat of combustion	> 30 kJ/g
Percent volatile	15 - 20 %
Specific gravity	0,85 - 0,87 @ 20°C
VOC (Weight %)	17,7 % per State and Federal Consumer Product Regulations

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.4. Conditions to avoid	Direct sources of heat. Avoid high temperatures. Aerosol containers are unstable at temperatures above 50°C. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	Carbon oxides.

SECTION 11: Toxicological information

General information	Not available.
Information on likely routes of exposure	
Ingestion	Health injuries are not known or expected under normal use.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Defatting of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Shortness of breath. Coughing. Behavioural changes. Decrease in motor functions.

11.1. Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Components	Species	Test results
Polybutene (Isobutylene/butene copolymer) (CAS 9003-29-6)		
Acute		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 3,8 mg/l

Components	Species	Test results
<i>Oral</i> LD50	Rat	> 2000 mg/kg
White mineral oil (CAS 8042-47-5)		
Acute		
<i>Dermal</i> LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i> LC50	Rat	> 4,5 mg/l
<i>Oral</i> LD50	Rat	> 5000 mg/kg

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

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory sensitisation	Based on available data, the classification criteria are not met.
Skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Not likely, due to the form of the product. May be harmful if swallowed and enters airways.
Mixture versus substance information	No information available.
Other information	Symptoms may be delayed.

SECTION 12: Ecological information

12.1. Toxicity	Components of this product have been identified as having potential environmental concerns.
12.2. Persistence and degradability	No data is available on the degradability of this product.
12.3. Bioaccumulative potential	No data available.
Partition coefficient n-octanol/water (log Kow)	
2-Methylpentane	3,74
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	Readily absorbed into soil.
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). Avoid discharge into water courses or onto the ground.
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	Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Contents under pressure. Do not incinerate sealed containers. Dispose in accordance with all applicable regulations.
Special precautions	None known.

SECTION 14: Transport information

ADR

14.1. UN number	UN1950
14.2. UN proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	
Class	2
Subsidiary risk	-
Label(s)	2.1
Hazard No. (ADR)	Not available.
Tunnel restriction code	D
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.

RID

14.1. UN number	UN1950
14.2. UN proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
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.

ADN

14.1. UN number	UN1950
14.2. UN proper shipping name	Aerosols, [flammable]
14.3. Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
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.

IATA

14.1. UN number	UN1950
14.2. UN proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
14.4. Packing group	Not applicable.
14.5. Environmental hazards	No.
ERG Code	10L
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
14.3. Transport hazard class(es)	
Class	2
Subsidiary risk	-
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

Not listed.

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

Not listed.

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

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 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

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) 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

Not listed.

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

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

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

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not listed.

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

2-Methylpentane (CAS 107-83-5)

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

Directive 94/33/EC on the protection of young people at work

Petroleum Gases, Liquefied, 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. 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. 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	R10 Flammable. R11 Highly flammable. R12 Extremely flammable. R20 Harmful by inhalation. R38 Irritating to skin. R45 May cause cancer. R46 May cause heritable genetic damage. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed. R67 Vapours may cause drowsiness and dizziness. H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H340 May cause genetic defects. H350 May cause cancer. H411 Toxic to aquatic life with long lasting effects.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.
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.