



FOOD GRADE MACHINE OIL

Food Grade Machine Oil is a lubricant and penetrant that minimizes friction, extends equipment life, and penetrates to provide complete surface coverage protection against wear and corrosion.



*Visit www.lpslabs.com/LPS_icons.html for more information

PACKAGE SIZE

Net Contents
11 wt. oz. / 312 g / 376 mL

Part No.
01316

APPLICATIONS

- Castors
- Chains
- Channels
- Conveyors
- Filling Equipment
- Food Racks

- Food Service Carts
- Slicers
- Sliding Tracks

PROPERTIES

Appearance/Physical State:
Clear liquid

Auto Ignition Temperature:
>490 °F (228 °C)

Coverage:
160 ft²/can @ 1 wet mil
80 ft²/can @ 2 wet mils

Evaporation Rate:
<0.1 (BuAc=1)

HMIS:
1, 2, 0

Propellant:
Carbon Dioxide

Spray Pattern:
Stream

Specific Gravity (water=1):
0.81 - 0.83 @ 68 °F (20 °C)

Temperature Range:
0 °F (-17 °C) to 385 °F (196 °C)

Vapor Pressure:
<0.05 mmHg @ 68 °F (20 °C)

VOC:
0% per State & Federal
Consumer Product Regulations
0 g/L per SCAQMD Rule 102

DIRECTIONS

Shake well before using. Apply on clean surface. Hold can 10-12 inches away from surface and spray evenly. If desired, attach extension tube for difficult to reach areas. Wipe off excess. Reapply as needed. Do not add directly to food. Use only in well ventilated areas. Avoid all sources of ignition (spark or flame).

DISPOSAL INFORMATION

Waste must be disposed of in accordance with national, regional, provincial, and local environmental control regulations.

FEATURES

- NSF® Certified: H1 Registration # 129000
- Penetrates to loosen frozen nuts and bolts
- Provides excellent lubricity
- Colorless
- Metal detectable plastic components (see back for more details)
- Eliminates sticking, binding, and squeaking
- Non-staining lubricant
- Displaces water
- Safe on most surfaces

SPECIFICATIONS AND APPROVALS

- Meets FDA Regulation 21 C.F.R. 178.3570 for incidental food contact
- NSF® Certified: H1 Registration # 129000
- Acceptable for use in Canadian food processing establishments

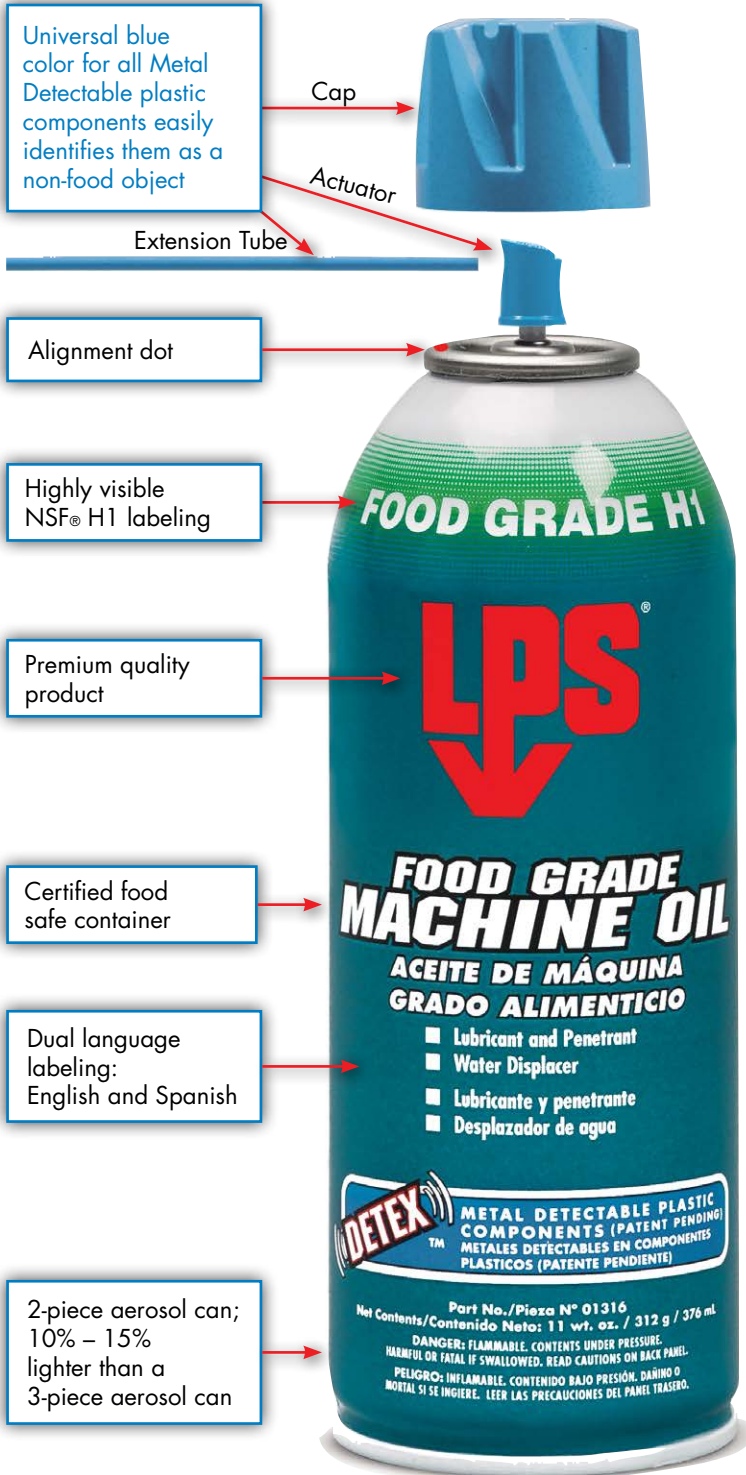


METAL DETECTABLE PLASTIC COMPONENTS

(PATENT PENDING)



Scan to watch Detex™ Product Demo Video



LPS® Detex™ Metal Detectable Plastic Components are designed to assist food processing plants in meeting strict HACCP requirements regarding the use of LPS® NSF® H1 aerosol products in the food processing area.

FEATURES	BENEFITS
All plastic components are Metal Detectable and capable of detection by most metal detection equipment.	Reduce concerns of food product contamination and assist with HACCP requirements.
All Metal Detectable plastic component ingredients are GRAS listed (Generally Accepted As Safe - 21 C.F.R. Sections 177 and 178).	Meets FDA requirements as an acceptable material for use in food processing plants.
Easily identified NSF® H1 product labeling. NSF® H1 lubricants can have incidental food contact.	Distinct Food Grade product labeling helps to prevent use of non NSF® H1 approved LPS® products in the food processing area.
Lithographed labels – LPS® does not use paper labels.	No chance of torn paper labels contaminating food as it is processed.
Aerosol can is in compliance with the 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).

- NOTE:**
- Minimum detection limits will vary depending on individual customers' equipment and operating conditions. (See chart below)
 - Plastic component detection limits 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.
 - 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.
 - 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.
 - 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.

COMPONENT	EQUIVALENT TEST SPHERE SIZE
Aerosol Cap	>3.0 mm Ferrous
Actuator	2.2 mm Ferrous
Extension Tube	1.0 mm Ferrous



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 Machine Oil
Registration number -
Synonyms None.
Part Number 01316
Issue date 13-March-2013
Version number 01

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

Identified uses A spray lubricant designed to displace moisture from mechanical and electrical equipment and provide a light-duty lubrication in food processing applications.
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 F+;R12

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

Physical hazards
Flammable aerosols Category 1 H222 - Extremely flammable aerosol.

Hazard summary

Physical hazards Extremely 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 Extremely flammable.
Main symptoms Irritating to eyes and respiratory system. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. Shortness of breath. Discomfort in the chest. Skin irritation. Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

2.2. Label elements

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

Contains: Distillates Petroleum, Hydrotreated Light

Hazard pictograms



Signal word

Danger

Hazard statements

H222 Extremely 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 applicable.

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
Distillates Petroleum, Hydrotreated Light	50 - < 60	64742-47-8 265-149-8	-	649-422-00-2	
Classification:	DSD: Xn;R65				
	CLP: Asp. Tox. 1;H304, Aquatic Chronic 2;H411				
Carbon dioxide	1 - < 3	124-38-9 204-696-9	-	-	#
Classification:	DSD: -				
	CLP: -				

Other components below reportable levels 30 - < 40

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

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

SECTION 4: First aid measures

General information IF exposed or concerned: Get medical advice/attention. 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 breathing is difficult, trained personnel should give oxygen. Get medical attention if symptoms persist.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. 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. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control centre immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. 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 Irritation of eyes and mucous membranes. Discomfort in the chest. Shortness of breath. Coughing. Skin irritation. Defatting of the skin. Prolonged exposure may cause chronic effects. Symptoms of overexposure can include shortness of breath, drowsiness, headaches, confusion, decreased coordination, visual disturbances and vomiting, and are reversible if exposure is stopped.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim under observation.

SECTION 5: Firefighting measures

General fire hazards Extremely flammable aerosol.

5.1. Extinguishing media

Suitable extinguishing media Dry chemicals. Carbon dioxide (CO₂). Foam, water spray or fog.

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

5.2. Special hazards arising from the substance or mixture Contents under pressure. Pressurised container may explode when exposed to heat or flame.

5.3. Advice for firefighters

Special protective equipment for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.

Special fire fighting procedures In case of fire and/or explosion do not breathe fumes. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Cool containers exposed to heat with water spray and remove container, if no risk is involved. 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 Local authorities should be advised if significant spillages cannot be contained. Consider initial downwind evacuation for at least 500 meters (1/3 mile). Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Pay attention to flashback.

For emergency responders Keep unnecessary personnel away.

6.2. Environmental precautions Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent product from entering drains. Following product recovery, flush area with water.

6.4. Reference to other sections Not applicable.

SECTION 7: Handling and storage

7.1. Precautions for safe handling 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. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas.

7.2. Conditions for safe storage, including any incompatibilities Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. 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
Carbon dioxide (CAS 124-38-9)	Ceiling	18000 mg/m ³
		10000 ppm
	MAK	9000 mg/m ³ 5000 ppm

Belgium. Exposure Limit Values.

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	STEL	54784 mg/m ³	
	TWA	30000 ppm 9131 mg/m ³ 5000 ppm	
Distillates Petroleum, Hydrotreated Light (CAS 64742-47-8)	TWA	200 mg/m ³	Vapor.
	STEL	10 mg/m ³	Mist.
White mineral oil (CAS 8042-47-5)	TWA	5 mg/m ³	Mist.

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

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m ³
Distillates Petroleum, Hydrotreated Light (CAS 64742-47-8)	TWA	300 mg/m ³
White mineral oil (CAS 8042-47-5)	TWA	5 mg/m ³

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

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m ³
		5000 ppm

Czech Republic. OELs. Government Decree 361

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	Ceiling	45000 mg/m ³	
	TWA	9000 mg/m ³	
White mineral oil (CAS 8042-47-5)	Ceiling	10 mg/m ³	Aerosol
	TWA	5 mg/m ³	Aerosol

Denmark. Exposure Limit Values

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TLV	9000 mg/m ³	
		5000 ppm	
White mineral oil (CAS 8042-47-5)	TLV	1 mg/m ³	Mist.

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

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m ³
		5000 ppm

Finland. Workplace Exposure Limits

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9100 mg/m ³
		9000 mg/m ³ 5000 ppm
Distillates Petroleum, Hydrotreated Light (CAS 64742-47-8)	TWA	500 mg/m ³

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

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	VME	9000 mg/m ³
		5000 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
Carbon dioxide (CAS 124-38-9)	TWA	9100 mg/m ³
Distillates Petroleum, Hydrotreated Light (CAS 64742-47-8)	TWA	5000 ppm
		140 mg/m ³
		20 ppm

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

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	AGW	9100 mg/m ³
		5000 ppm

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

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m ³	
	TWA	5000 ppm 9000 mg/m ³	
White mineral oil (CAS 8042-47-5)	TWA	5000 ppm 5 mg/m ³	Mist.

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m ³	
White mineral oil (CAS 8042-47-5)	Ceiling	5 mg/m ³	Mist.

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

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m ³	
		5000 ppm	
White mineral oil (CAS 8042-47-5)	TWA	1 mg/m ³	Mist.

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	STEL	27000 mg/m ³	
		15000 ppm	
		9000 mg/m ³ 5000 ppm	
White mineral oil (CAS 8042-47-5)	TWA	0,2 mg/m ³	Inhalable fraction.

Italy. Occupational Exposure Limits

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m ³	
		5000 ppm	
White mineral oil (CAS 8042-47-5)	TWA	5 mg/m ³	Inhalable fraction.

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

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m ³
		5000 ppm

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

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m ³	
		5000 ppm	

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

Components	Type	Value	Form
Distillates Petroleum, Hydrotreated Light (CAS 64742-47-8)	STEL	500 mg/m ³	
White mineral oil (CAS 8042-47-5)	TWA	350 mg/m ³	
	STEL	3 mg/m ³	Fume and mist.
	TWA	1 mg/m ³	Fume and mist.

Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A

Components	Type	Value	
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m ³	
		5000 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	
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m ³	
		5000 ppm	

Netherlands. OELs (binding)

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m ³	
White mineral oil (CAS 8042-47-5)	TWA	5 mg/m ³	Mist.

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TLV	9000 mg/m ³	
		5000 ppm	
Distillates Petroleum, Hydrotreated Light (CAS 64742-47-8)	TLV	275 mg/m ³	
		40 ppm	
White mineral oil (CAS 8042-47-5)	TLV	1 mg/m ³	Mist.

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

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	STEL	27000 mg/m ³	
		9000 mg/m ³	
Distillates Petroleum, Hydrotreated Light (CAS 64742-47-8)	STEL	300 mg/m ³	
		100 mg/m ³	
White mineral oil (CAS 8042-47-5)	STEL	10 mg/m ³	Aerosol
		5 mg/m ³	Aerosol

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

Components	Type	Value	
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m ³	
		5000 ppm	

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

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
White mineral oil (CAS 8042-47-5)	STEL	10 mg/m ³	Aerosol
		5 mg/m ³	Aerosol

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

Components	Type	Value	
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m ³	

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

Components	Type	Value
White mineral oil (CAS 8042-47-5)	STEL	5000 ppm 10 mg/m3
	TWA	5 mg/m3

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

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
White mineral oil (CAS 8042-47-5)	TWA	5000 ppm 1 mg/m3	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
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm

Spain. Occupational Exposure Limits

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9150 mg/m3	
White mineral oil (CAS 8042-47-5)	STEL	5000 ppm 10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Sweden. Occupational Exposure Limit Values

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	STEL	18000 mg/m3	
	TWA	10000 ppm 9000 mg/m3	
		5000 ppm 500 mg/m3	
Distillates Petroleum, Hydrotreated Light (CAS 64742-47-8)	STEL	350 mg/m3	
	TWA	3 mg/m3	Mist.
White mineral oil (CAS 8042-47-5)	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	27400 mg/m3
	TWA	15000 ppm 9150 mg/m3 5000 ppm

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

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 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

Eye/face protection Do not get in eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.

Skin protection

- Hand protection

For prolonged or repeated skin contact use suitable protective gloves. Chemical resistant gloves are recommended.

- Other

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Wear suitable protective clothing and gloves. Chemical resistant gloves.

Respiratory protection

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

Thermal hazards

Not applicable.

Hygiene measures

Do not eat, drink or smoke when using the product. Do not get in eyes, on skin, on clothing. Wash hands after handling. Handle in accordance with good industrial hygiene and safety practices.

Environmental exposure controls

Environmental manager must be informed of all major releases. 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, Colorless.
Odour	Slight petroleum odor
Odour threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 224 °C (> 435,2 °F)
Flash point	> 70,00 °C (> 158,00 °F) Tag closed cup
Evaporation rate	< 0,1 BuAc
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	0,6 %
Flammability limit - upper (%)	7 %
Vapour pressure	< 0,05 mm Hg @ 20°C
Vapour density	4,7
Relative density	Not available.
Solubility(ies)	Not soluble in water
Partition coefficient (n-octanol/water)	< 1
Auto-ignition temperature	> 228 °C (> 442,4 °F)
Decomposition temperature	Not available.
Viscosity	130 - 160 cP
Viscosity temperature	25 °C (77 °F)
Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	
Heat of combustion	> 30 kJ/g

Percent volatile	60 %
Specific gravity	0,81 - 0,83 @ 20°C
VOC (Weight %)	0 % per U.S State and Federal Consumer Product Regulations.

SECTION 10: Stability and reactivity

10.1. Reactivity	Strong oxidizing agents.
10.2. Chemical stability	Material is stable under normal conditions. Instability caused by elevated temperatures.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid temperatures exceeding the flash point.
10.5. Incompatible materials	Strong oxidizing agents.
10.6. Hazardous decomposition products	At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Ingestion	Based on available data, the classification criteria are not met.
Inhalation	May cause irritation to the respiratory system.
Skin contact	May be irritating to the skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Eye contact	May be irritating to eyes.

Symptoms Discomfort in the chest. Shortness of breath. Coughing. Irritant effects. Defatting of the skin. Skin irritation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
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	Based on available data, the classification criteria are not met.
Mixture versus substance information	Not available.
Other information	None known.

SECTION 12: Ecological information

12.1. Toxicity	Ecological injuries are not known or expected under normal use.
12.2. Persistence and degradability	Not inherently biodegradable.
12.3. Bioaccumulative potential	Not available.
Partition coefficient n-octanol/water (log Kow)	
LPS® Food Grade Machine Oil	< 1
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 None known.

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. Do not re-use empty containers.
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. Contents under pressure. Do not puncture, incinerate or crush. 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

14.1. UN number	UN1950
14.2. UN proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	2.1
Subsidiary class(es)	-
14.4. Packing group	Not available.
14.5. Environmental hazards	No
Tunnel restriction code	Not available.
Labels required	2.1
14.6. Special precautions for user	Not available.

RID

14.1. UN number	UN1950
14.2. UN proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	2.1
Subsidiary class(es)	-
14.4. Packing group	Not available.
14.5. Environmental hazards	No
Labels required	2.1
14.6. Special precautions for user	Not available.

ADN

14.1. UN number	UN1950
14.2. UN proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	2.1
Subsidiary class(es)	-
14.4. Packing group	Not available.
14.5. Environmental hazards	No
Labels required	2.1
14.6. Special precautions for user	Not available.

IATA

14.1. UN number	UN1950
14.2. UN proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	2.1
Subsidiary class(es)	-
14.4. Packing group	Not available.
14.5. Environmental hazards	Not available.
Labels required	2.1

ERG Code Not available.

14.6. Special precautions for user Not available.

IMDG

14.1. UN number UN1950

14.2. UN proper shipping name Aerosols, flammable

14.3. Transport hazard class(es) 2.1

Subsidiary class(es) -

14.4. Packing group Not available.

14.5. Environmental hazards

Marine pollutant No

Labels required 2.1

14.6. Special precautions for user Not available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code This substance/mixture is not intended to be transported in bulk.

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. 143/2011 Annex XIV Substances Subject to Authorisation

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

Not regulated.

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

Not regulated.

Other EU regulations

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

Not regulated.

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

Distillates Petroleum, Hydrotreated Light (CAS 64742-47-8)

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

Not regulated.

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.

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

R12 Extremely flammable.
R65 Harmful: may cause lung damage if swallowed.

H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

Revision information

None.

Training information

Not available.

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.