MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

Product identifier

LPS® Food Grade Chain Lubricant

Version #

- 01

Issue date

09-01-2015

CAS#

Mixture

Part Number

06016, C06016

Product use

A food grade chain lubricant for parts and equipment.

Manufacturer information

ITW Pro Brands 4647 Hugh Howell Rd Tucker, GA 30084

United States

lpssds@itwprobrands.com

www.lpslabs.com

1-800-241-8334/

770-243-8800

Chemtrec

1-800-424-9300

Supplier

Not available.

2. Hazards Identification

Emergency overview

WARNING

CONTENTS UNDER PRESSURE.

Flammable aerosol. Will be easily ignited by heat, spark or flames. Pressurized container may

explode when exposed to heat or flame.

Causes skin and eye irritation. May cause drowsiness or dizziness. Prolonged exposure may

cause chronic effects.

Potential health effects

Routes of exposure

Inhalation. Skin contact. Eye contact. Ingestion.

Eyes

Avoid contact with eyes. May cause eye irritation.

Skin

Avoid contact with the skin. Frequent or prolonged contact may defat and dry the skin, leading to

discomfort and dermatitis.

Inhalation

Do not breathe vapors, aerosols. Prolonged inhalation may be harmful. Intentional misuse by

concentrating and inhaling the product can be harmful or fatal.

Ingestion

Exposure by ingestion of an aerosol is unlikely. For further information, please refer to section 11

of the MSDS.

Target organs

Health injuries are not known or expected under normal use.

Chronic effects

May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged

weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or procontact may defat and dry the skin, leading to discomfort and dermatitis.

Signs and symptoms

Irritant effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Vapors have a

narcotic effect and may cause headache, fatigue, dizziness and nausea. Decrease in motor functions. Behavioral changes. Coughing. Shortness of breath. Prolonged exposure may cause

chronic effects.

3. Composition / Information on Ingredients

Hazardous components	CAS#	Percent
2-Methylpentane	107-83-5	1 - 3
Non-hazardous components	CAS#	Percent
White Mineral Oil	8042-47-5	60 - 70
Polybutene (Isobutylene/butene copolymer)	9003-29-6	20 - 30

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Non-hazardous components	CAS#	Percent
Petroleum Gases, Liquefied, Sweetened	68476-86-8	10 - 20
2,2-Dimethybutane	75-83-2	< 1
2,3-Dimethylbutane	79-29-8	< 1
3-Methylpentane	96-14-0	< 1

4. First Aid Measures

First aid procedures

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 center immediately. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Notes to physician 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.

General advice IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. Show this safety

data sheet to the doctor in attendance.

5. Fire Fighting Measures

Flammable properties Flammable by OSHA criteria. Flammable by WHMIS criteria. Heat may cause the containers to

explode. Ruptured cylinders may rocket. Vapors may travel considerable distance to a source of

ignition and flash back.

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.

Protection of firefighters

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Fire fighting

equipment/instructions

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.

Specific methods Move containers from fire area if you can do so without risk. Cool containers exposed to flames

with water until well after the fire is out.

Explosion data

Sensitivity to static

discharge

Yes

Sensitivity to mechanical

impact

None known.

Hazardous combustion

products

May include oxides of carbon.

General fire hazards

Flammable aerosol.

6. Accidental Release Measures

Personal precautions

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 vapors or mists. For personal protection, see section 8 of the MSDS.

Environmental precautions

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

environment.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk.

Methods for cleaning up

Eliminate ignition sources including sources of electrical, static or frictional sparks. Ventilate the contaminated area. Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Do not allow material to contaminate ground water system. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Wear appropriate protective equipment and clothing during clean-up. For waste disposal, see section 13 of the MSDS.

7. Handling and Storage

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.

Storage

Level 3 Aerosol.

Keep out of the reach of children. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. 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 MSDS).

8. Exposure Controls / Personal Protection

US. ACGIH Threshold Limit Values

Occupational exposure limits

Components	Type	Value	
2,2-Dimethybutane (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	
Canada. Alberta OELs (Occupation	onal Health & Safety Code, Sc	hedule 1, Table 2)	
Components	Туре	Value	
2-Methylpentane (CAS 107-83-5)	STEL	3500 mg/m3	
		:1000 ppm	
	TWA	1760 mg/m3	
		500 ppm	
3-Methylpentane (CAS 96-14-0)	STEL	3500 mg/m3	
		1000 ppm	
	TWA	1760 mg/m3	
		500 ppm	
Canada. Manitoba OELs (Reg. 21	7/2006, The Workplace Safety	And Health Act)	
Components	Туре	Value	
2,2-Dimethybutane (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	

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) Components Type **STEL** 1000 ppm 3-Methylpentane (CAS 96-14-0) **TWA**

Biological limit values

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

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.

500 ppm

Personal protective equipment

Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain Eve/face protection

and emergency showers are recommended.

Skin protection

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

Respiratory protection

No personal respiratory protective equipment normally required. Avoid breathing

dust/fume/gas/mist/vapors/spray. If permissible levels are exceeded use NIOSH mechanical filter /

organic vapor cartridge or an air-supplied respirator.

Hand protection

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

9. Physical & Chemical Properties

Liquid. **Appearance** Gas. Physical state

Form

Aerosol.

Color

Odor

pΗ

Clear, Colorless.

Mild. Hydrocarbon-like.

Odor threshold

Not established Not applicable

Vapor pressure

2782 mm Hg @ 20°C

Vapor density

~3 (air=1)

Boiling point

345.2 °F (174 °C)

Melting point/Freezing point

Not established

Solubility (water) Specific gravity

Not soluble in water 0.85 - 0.87 @ 20°C

Relative density

Not available.

Flash point

-20.0 °F (-28.9 °C) Tag Closed Cup (dispensed liquid)

Flammability limits in air,

upper, % by volume

9.5 % (estimated)

Flammability limits in air,

1 % (estimated)

lower, % by volume

Auto-ignition temperature

> 509 °F (> 265 °C)

VOC

17.7 % per State and Federal Consumer Product Regulations

Evaporation rate

~8.1

Viscosity

164 cP @ 25ºC

Percent volatile

15 - 20 %

Partition coefficient

temperature

Not established

(n-octanol/water)

Other data Decomposition

Not established

Flammability (solid, gas)

Flammable gas.

Heat of combustion

> 30 kJ/g

10. Chemical Stability & Reactivity Information

Chemical stability

Material is stable under normal conditions.

Conditions to avoid

Direct sources of heat. Avoid high temperatures. Aerosol containers are unstable at temperatures

above 50°C. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

Carbon oxides.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Components Species Test Results

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

<u>Acute</u>

Inhalation

Gas

LC50

Mouse

1237 mg/l, 120 Minutes

52 %, 120 Minutes

LC50

Rat

1355 mg/l

Polybutene (Isobutylene/butene copolymer) (CAS 9003-29-6)

Acute

Dermai

LD50

Rat

> 2000 mg/kg, 24 Hours

Inhalation

Vapor

LC50

Rat

> 19171 mg/m3

> 4185 ppm

> 3.8 mg/l, 7 Hours

Oral

LD50

Rat

> 2000 mg/kg

White Mineral Oil (CAS 8042-47-5)

Acute

Dermal

LD50

Rabbit

> 2000 mg/kg, 24 Hours

Inhalation

LC50

Rat

2.18 mg/l, 4 Hours

Oral

LD50

Rat

> 5000 mg/kg

Toxicological information

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

Acute effects

Not expected to be acutely toxic.

Sensitization

Not classified.

Local effects

Prolonged or repeated exposure may cause headache. May irritate eyes and skin.

Chronic effects

Prolonged exposure may cause chronic effects.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/irritation

Direct contact with eyes may cause temporary irritation.

Mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Reproductive effects

This product is not expected to cause reproductive or developmental effects.

Teratogenicity

No data available for this product.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Defatting of the Symptoms and target organs skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Shortness of breath. Coughing. Behavioral changes. Decrease in motor functions.

Synergistic materials

Not available.

Further information

None known.

12. Ecological Information

Ecotoxicological data

No ecotoxicity data noted for the ingredient(s).

Ecotoxicity

Components of this product have been identified as having potential environmental concerns.

Environmental effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Aquatic 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.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulation /

No data available.

accumulation

Partition coefficient

2,2-Dimethybutane 2,3-Dimethylbutane 2-Methylpentane

3.82 3.42 3.74 3.6

3-Methylpentane

Mobility in environmental media

The product is immiscible with water and will spread on the water surface.

Other adverse effects None known.

13. Disposal Considerations

Disposal instructions

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.

Waste from residues / unused

products

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.

14. Transport Information

TDG

UN number

UN1950

UN proper shipping name Transport hazard class(es) AEROSOLS, flammable

Class

2.1

Subsidiary risk

Packing group

Not applicable. Not available.

Environmental hazards

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

IATA

UN number

UN1950

UN proper shipping name

Aerosols, flammable

Transport hazard class(es)

Class Subsidiary risk 2.1

Packing group

Not applicable.

Environmental hazards ERG Code

No. 10L

Special precautions for user

Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, MSDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed.

aircraft

Cargo aircraft only

Allowed.

IMDG

UN number

UN1950

UN proper shipping name

AEROSOLS

Transport hazard class(es) Class

2

Subsidiary risk

Packing group

Environmental hazards

Not applicable.

Marine pollutant

No.

F-D, S-U

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

instructions, MSDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

Not applicable.

IATA; IMDG; TDG



15. Regulatory Information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status

Controlled

WHMIS classification

A - Compressed Gas B5 - Flammable Aerosols

D2B - Other Toxic Effects-TOXIC

WHMIS labeling







International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan .	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	. No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

Country(s) or region

Inventory name

On inventory (yes/no)*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

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.

Prepared by

Not available

Revision Information

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