# **Fb**2

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Product identifier LPS® 2
Version # 01

**Issue date** 09-11-2014 **CAS #** Mixture

Part Number C00222, C02128, C00205, C00255

Product use An industrial lubricant designed to displace moisture from equipment, provide heavy-duty

lubrication and rust prevention.

Manufacturer information LPS Laboratories, a division of Illinois Tool Works, Inc.

4647 Hugh Howell Rd Tucker, Georgia 30084

United States www.lpslabs.com

1-800-241-8334/ 770-243-8800 Chemtrec 1-800-424-9300

**Supplier** Not available.

## 2. Hazards Identification

Emergency overview DANGER

Combustible liquid. May be ignited by heat, sparks or flames.

HARMFUL OR FATAL IF SWALLOWED.

Irritating to eyes and skin. May cause drowsiness and dizziness.

Potential health effects

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Eyes Avoid contact with eyes. Causes eye irritation.

Skin Avoid contact with the skin. Causes skin irritation.

Inhalation Do not breathe dust/fume/gas/mist/vapors/spray. Prolonged inhalation may be harmful.

**Ingestion** Harmful: may cause lung damage if swallowed. Ingestion may cause gastrointestinal irritation,

nausea, vomiting and diarrhea. Do not ingest.

Signs and symptoms Aspiration may cause pulmonary edema and pneumonitis. Causes serious eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause redness and pain. May cause drowsiness and dizziness. Headache. Nausea, vomiting.

## 3. Composition / Information on Ingredients

Non-hazardous components	CAS#	Percent	
Distillates Petroleum, Hydroteated Light	64742-47-8	70 - 80	
Petroleum Oil	64742-52-5	20 - 30	

#### 4. First Aid Measures

First aid procedures

**Inhalation** Move to fresh air. Get medical attention, if needed.

Skin contact Remove and isolate contaminated clothing and shoes. Wash off immediately with soap and plenty

of water. Get medical attention if irritation develops and persists.

Eye contact Flush eyes immediately with large amounts of water. If a contact lens is present, DO NOT delay

irrigation or attempt to remove the lens. Continue rinsing. Get medical attention if irritation

develops and persists.

**Ingestion** In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth

thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Do not induce vomiting without advice from poison control center.

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#### General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

# 5. Fire Fighting Measures

Flammable properties

Combustible by WHMIS criteria. Heat may cause the containers to explode.

Extinguishing media

Suitable extinguishing

media

Alcohol resistant foam. Water spray. Water fog. Dry chemical powder. Dry chemicals. Carbon dioxide (CO2).

Unsuitable extinguishing

media

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

**Protection of firefighters** 

Protective equipment for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

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. Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray. 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.

Specific methods

Cool containers exposed to flames with water until well after the fire is out.

**Explosion data** 

Sensitivity to static

discharge

None known.

Sensitivity to mechanical

impact

None known.

Hazardous combustion

products

May include oxides of carbon.

## 6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the MSDS.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment

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 vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up

Extinguish all flames in the vicinity. Should not be released into the environment.

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. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Scrub the area with detergent and 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. Clean up in accordance with all applicable regulations. For waste disposal, see section 13 of the MSDS.

Other information

Clean up in accordance with all applicable regulations.

# 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. When using do not smoke. All equipment used when handling the product must be grounded. Avoid prolonged or repeated contact with skin. Use only in well-ventilated areas. Avoid release to the environment.

Storage

Do not handle or store near an open flame, heat or other sources of ignition. Keep at temperature not exceeding 49 °C. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a closed container away from incompatible materials. Store in a well-ventilated place. Keep out of the reach of children. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the MSDS).

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## 8. Exposure Controls / Personal Protection

## Occupational exposure limits

**ACGIH** 

Components	Туре	Value	Form
Distillates Petroleum, Hydroteated Light (CAS 64742-47-8)	TWA	5 mg/m3	Oil mist
Petroleum Oil (CAS 64742-52-5)	TWA	5 mg/m3	Oil mist

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and

Safety Regulation 296/97, as amended)

ComponentsTypeValueFormDistillates Petroleum,TWA200 mg/m3Non-aerosol.

Hydroteated Light (CAS

64742-47-8)

U.S. - OSHA

Components	Туре	Value	Form
Distillates Petroleum, Hydroteated Light (CAS 64742-47-8)	PEL	5 mg/m3	Oil mist
Petroleum Oil (CAS 64742-52-5)	PEL	5 mg/m3	Oil mist

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

**Exposure guidelines** 

**Engineering controls** 

Canada - British Columbia OELs: Skin designation

Distillates Petroleum, Hydroteated Light (CAS Can be absorbed through the skin.

64742-47-8)

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. Ensure

adequate ventilation, especially in confined areas.

Personal protective equipment

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

Skin protection Avoid contact with the skin. Wear appropriate chemical resistant clothing.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

**Hand protection** Chemical resistant gloves are recommended.

## 9. Physical & Chemical Properties

Appearance Liquid.
Physical state Liquid.
Form Liquid.
Color Brown.

Odor Slight petroleum odor. Cherry.

Odor threshold Not established pH Not applicable

Vapor pressure < 0.05 mm Hg @ 20°C

Vapor density 4.7 (air = 1)

Boiling point 383 °F (195 °C)

Melting point/Freezing point < -58 °F (< -50 °C)

Solubility (water) < 3 %

Specific gravity Not available.

Relative density Not available.

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174.2 °F (79.0 °C) Tag Closed Cup (dispensed liquid) Flash point

Flammability limits in air, upper, % by volume

7 %

Flammability limits in air,

0.6 %

lower, % by volume

**Auto-ignition temperature** 

> 442.4 °F (> 228 °C)

VOC 0 % per US State & Federal Consumer Product Regulations

**Evaporation rate** < 0.1 (BuA = 1)< 7 cSt @ 25°C **Viscosity** 92 - 95 % Percent volatile < 1

**Partition coefficient** (n-octanol/water)

Other data

Decomposition

Not established

temperature

Heat of combustion > 30 kJ/g

# 10. Chemical Stability & Reactivity Information

**Chemical stability** Material is stable under normal conditions.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Oxidizing agents. Incompatible materials Carbon oxides. Hazardous decomposition

products

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

# 11. Toxicological Information

# Toxicological data

Toxicological data			
Components	Species	Test Results	
Distillates Petroleum, Hydro	teated Light (CAS 64742-47-8)		
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
		> 2000 mg/kg, 24 Hours	
Inhalation			
LC50	Cat	> 6.4 mg/l, 6 Hours	
	Rat	> 7.5 mg/l, 6 Hours	
		> 4.3 mg/l, 4 Hours	
		> 0.1 mg/l, 8 Hours	
Oral		3,72,33	
LD50	Rat	> 5000 mg/kg	
Petroleum Oil (CAS 64742-		. See any of	
Acute	<i>52 0)</i>		
Dermal			
LD50	Rabbit	> 2000 mg/kg	
		> 2000 mg/kg, 24 Hours	
Inhalation		,,	
LC50	Rat	2.18 mg/l, 4 Hours	
Oral	1161	2.10 mg/l, 1110a10	
LD50	Rat	5000 mg/kg	
LDJU	riai	3000 Hig/kg	
Acute effects	May be fatal if swallowed and en	May be fatal if swallowed and enters airways. Narcotic effects.	

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Sensitization

Not classified.

Local effects Irritating to eyes. Irritating to skin. Ingestion may cause gastrointestinal irritation, nausea, vomiting

and diarrhea.

**Chronic effects** Prolonged inhalation may be harmful.

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

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/irritation Causes serious eye 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** Not available.

**Symptoms and target organs** Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation.

Exposure may cause temporary irritation, redness, or discomfort. Vapors have a narcotic effect

and may cause headache, fatigue, dizziness and nausea. Decrease in motor functions.

Behavioral changes.

Synergistic materials Not available.

# 12. Ecological Information

**Ecotoxicological data** 

Components Species Test Results

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

Aquatic

Fish LC50 Rainbow trout, donaldson trout 2.9 mg/l, 96 hours

(Oncorhynchus mykiss)

**Ecotoxicity** 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.

**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 Not inherently biodegradable.

Partition coefficient

LPS® 2 < 1

Other adverse effects None known.

## 13. Disposal Considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. 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).

**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** 

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

# 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

Material name: LPS® 2 MSDS CANADA

B3 - Combustible Liquids

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)	Yes
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)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

<sup>\*</sup>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).

Toxic Substances Control Act (TSCA) Inventory

## 16. Other Information

United States & Puerto Rico

#### Disclaimer

LPS Laboratories cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. 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.

Not available. Prepared by

Material name: LPS® 2

Yes