LPS°

SAFETY DATA SHEET

1. Identification

Product identifier LPS® Red & Redi

Other means of identification

SDS number 05816

Part Number 05816, C05816

Recommended useA red colored, multi-purpose grease designed with high temperature resistance while providing

excellent lubrication.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name ITW Pro Brands

Address 4647 Hugh Howell Rd.

Tucker, GA 30084

Country (U.S.A.)

Tel: +1 770-243-8800

In Case of Emergency 1-800-424-9300

1-703-527-3887

Website www.lpslabs.com

E-mail lpssds@itwprobrands.com

Supplier ITW Permatex Canada

1-35 Brownridge Road Halton Hills, ON, L7G 0C6

Canada

1-800-241-8334

2. Hazard(s) identification

Physical hazardsFlammable aerosolsCategory 1

Gases under pressure Liquefied gas Skin corrosion/irritation Category 2

Reproductive toxicity Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated Category 2 (nervous system)

exposure (inhalation)

Environmental hazards Not classified.

Label elements

Health hazards



Signal word Danger

Hazard statement Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin

irritation. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs (nervous system) through prolonged or repeated exposure by

inhalation.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Material name: LPS® Red & Redi

IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep Response

> comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off

contaminated clothing and wash it before reuse.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from Storage

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

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

Other hazards None known. Supplemental information None known.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Petroleum Oil		64742-52-5	30 - 40
2-Methylpentane		107-83-5	10 - 20
2,3-Dimethylbutane		79-29-8	1 - 10
3-Methylpentane		96-14-0	1 - 10
2,2-Dimethylbutane		75-83-2	1 - 5
Distillates Petroleum Hydrotre Light	ated	64742-47-8	1 - 5
n-Hexane		110-54-3	1 - 5

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON Inhalation

CENTER or doctor/physician if you feel unwell.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or Ingestion

poison control center. Rinse mouth.

Most important

symptoms/effects, acute and

delayed

changes. Decrease in motor functions. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral

Indication of immediate medical attention and special

treatment needed General information Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. 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

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

attendance.

Unsuitable extinguishing

media

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

Specific hazards arising from

the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters 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: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed Fire fighting to heat. Move containers from fire area if you can do so without risk. Containers should be cooled equipment/instructions 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.

Use standard firefighting procedures and consider the hazards of other involved materials. Move Specific methods 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. In the event of fire and/or explosion do not breathe fumes.

Material name: LPS® Red & Redi SDS CANADA 2/10 Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized 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. Do not breathe gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Туре	Value	Form
TWA	5 mg/m3	Oil mist
6		
Туре	Value	
STEL	1000 ppm	
TWA	500 ppm	
STEL	1000 ppm	
TWA	500 ppm	
STEL	1000 ppm	
TWA	500 ppm	
STEL	1000 ppm	
TWA	500 ppm	
TWA	50 ppm	
	TWA Type STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA	TWA 5 mg/m3 Type Value STEL 1000 ppm TWA 500 ppm TWA 500 ppm TWA 500 ppm TWA 500 ppm

Material name: LPS® Red & Redi SDS CANADA

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	
N-Hexane (CAS 110-54-3)	TWA	176 mg/m3	
		50 ppm	
Canada. British Columbia OELs. (Safety Regulation 296/97, as ame		ts for Chemical Substances, C	•
Components	Туре	Value	Form
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8)	TWA	200 mg/m3	Non-aerosol.
N-Hexane (CAS 110-54-3)	TWA	20 ppm	
Canada. Manitoba OELs (Reg. 217	7/2006. The Workplace Safety	And Health Act)	
Components	Туре	Value	
2.2 dimethylbutane (CAS	OTE!	1000 nnm	

N-Hexane (CAS 110-54-3)	TWA	176 mg/m3 50 ppm	
Canada. Quebec OELs. (Ministry Components	of Labor - Regulation Respec Type	ting the Quality of the Work En ^o Value	vironment)
N-Hexane (CAS 110-54-3)	TWA	50 ppm	
Canada. Ontario OELs. (Control o	of Exposure to Biological or C Type	hemical Agents) Value	
N-Hexane (CAS 110-54-3)	TWA	50 ppm	
,	TWA	500 ppm	
3-Methylpentane (CAS 96-14-0)	STEL	1000 ppm	
	TWA	500 ppm	
2-Methylpentane (CAS 107-83-5)	STEL	1000 ppm	
,	TWA	500 ppm	
2,3-Dimethylbutane (CAS 79-29-8)	STEL	1000 ppm	
0.0 D'as alles lles taux a (0.40	TWA	500 ppm	
2,2-dimethylbutane (CAS 75-83-2)	STEL	1000 ppm	
Canada. Manitoba OELs (Reg. 21 Components	Туре	Value	
N-Hexane (CAS 110-54-3)	TWA	20 ppm	
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8)	TWA	200 mg/m3	Non-aerosol.

Biological limit values

ACGIH Biological Exposu Components	re Indices Value	Determinant	Specimen	Sampling Time
N-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedio n, without hydrolysis	Urine	*

^{* -} For sampling details, please see the source document.

Exposure guidelines

Canada - Alberta OELs: Skin designation

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

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

64742-47-8)

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

Material name: LPS® Red & Redi SDS CANADA 4 / 10

Canada - Manitoba OELs: Skin designation

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

n-Hexane (CAS 110-54-3)

Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

n-Hexane (CAS 110-54-3)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

n-Hexane (CAS 110-54-3)

Can be absorbed through the skin.

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. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. 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.

9. Physical and chemical properties

Appearance

Physical state Gas.

Form Aerosol. Liquefied gas.

Color Red.

Odor Mild. Solvent.

Odor threshold Not established PH Not applicable

Melting point/freezing point Not applicable

Initial boiling point and boiling ~70.2°C (158°F)

range

> -20.2 °F (> -29.0 °C) (bulk liquid) estimated

Evaporation rate < 1 (Ethyl Ether =1) **Flammability (solid, gas)** Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

1.8 %

(%)

Flash point

Flammability limit - upper

9.5 %

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 2500 - 3500 mm Hg @20 °C (calculated aerosol)

Vapor density 2 - 3 (air = 1)

Relative density Not available.

Solubility(ies)

Solubility (water) Not soluble in water

Material name: LPS® Red & Redi

Partition coefficient (n-octanol/water)

Not established

Not established **Auto-ignition temperature Decomposition temperature** Not established

Viscosity 3100 - 4000 cP (bulk liquid)

Other information

Explosive properties Not explosive. Heat of combustion > 30 kJ/g**Oxidizing properties** Not oxidizing.

Percent volatile 65 %

Specific gravity 0.77 - 0.8 @20 °C

VOC 65 % per State and Federal Consumer Product Regulations

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. **Chemical stability** Possibility of hazardous Hazardous polymerization does not occur.

Conditions to avoid

reactions

Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation. May cause

drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact Causes skin irritation.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Test Results Components **Species**

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

Acute Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation Vapor

LC50 Rat > 4.5 mg/l, 4 Hours

n-Hexane (CAS 110-54-3)

Acute Dermal

LD50 Rabbit > 2000 mg/kg, 4 Hours

Petroleum Oil (CAS 64742-52-5)

Acute **Dermal**

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 Rat > 3.9 mg/l, 4 Hours

Material name: LPS® Red & Redi SDS CANADA

Species Test Results Components

Oral

Rat LD50 > 2000 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

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

mutagenic or genotoxic.

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

Suspected of damaging fertility or the unborn child. Reproductive toxicity

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

May cause damage to organs (nervous system) through prolonged or repeated exposure by

Not likely, due to the form of the product. Aspiration hazard

May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may **Chronic effects**

be harmful.

Further information Symptoms may be delayed.

12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity**

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Species Test Results Components

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

Aquatic

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

(Oncorhynchus mykiss)

n-Hexane (CAS 110-54-3)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 2.101 - 2.981 mg/l, 96 hours

Not inherently biodegradable. Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2,2-Dimethylbutane 3.82 2,3-Dimethylbutane 3.42 2-Methylpentane 3.74 3-Methylpentane 3.6 n-Hexane 3.9

No data available. Mobility in soil

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents **Disposal instructions**

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Material name: LPS® Red & Redi SDS CANADA

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

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

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport information

TDG

UN1950 **UN number**

UN proper shipping name

AEROSOLS, flammable, MARINE POLLUTANT (ISOHEXANE, MINERAL SPIRITS RULE 66)

Transport hazard class(es)

Class 2.1 Subsidiary risk

Packing group Not available.

Environmental hazards Yes

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

ISOHEXANE

MINERAL SPIRITS RULE 66

IATA

UN number UN1950

UN proper shipping name Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk

Packing group Not available.

Environmental hazards Yes **ERG Code** 10L

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

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

IMDG

UN number UN1950

UN proper shipping name AEROSOLS (hexanes), MARINE POLLUTANT

Not applicable.

Transport hazard class(es)

2 Class Subsidiary risk

Not available. Packing group

Environmental hazards

Yes Marine pollutant **EmS** F-D, S-U

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

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

IATA; IMDG; TDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant. Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Additional information is given in the Safety Data Sheet.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

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)	Yes
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	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Material name: LPS® Red & Redi

Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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

Issue date 03-31-2017

Version # 01

Disclaimer ITW Pro Brands 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.

Revision information Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Transport Information: Material Transportation Information

Regulatory Information: Risk Phrases - Labeling

HazReg Data: North America

GHS: Qualifiers

Material name: LPS® Red & Redi sps canada