

SAFETY DATA SHEET

1. Identification

1. Identification		
Product identifier	LPS® Red & Redi	
Other means of identification		
SDS number	05816	
Part Number	05816	
Recommended use	A red colored, multi-purpose grease designed excellent lubrication.	with high temperature resistance while providing
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
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 (inside U.S.)	
	+001 703-527-3887 (outside U.S.)	
Website	www.lpslabs.com	
E-mail	lpssds@itwprobrands.com	
2. Hazard(s) identification		
Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Liquefied gas
Health hazards	Skin corrosion/irritation	Category 2
	Reproductive toxicity	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure (inhalation)	Category 2 (nervous system)
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



Danger

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

Signal word

Hazard statement

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: 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.

Response	If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep 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 before reuse.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	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
Petroleum Gases, Liquefied, Sweetened		68476-86-8	20 - 30
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 Hydrotreated Light		64742-47-8	1 - 5
n-Hexane		110-54-3	1 - 5

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON 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.
Ingestion	Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	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 attendance.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
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.
Fire fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. 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.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. 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. In the event of fire and/or explosion do not breathe fumes.

General fire hazards 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. Use personal protection recommended in 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,	Level 3 Aerosol.
including any incompatibilities	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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

U.S OSHA				
Components	Туре	Value	Form	
Petroleum Oil (CAS 64742-52-5)	PEL	5 mg/m3	Oil mist	
US. OSHA Table Z-1 Limits for Air (Contaminants (29 CFR 1910.1000)			
Components	Туре	Value		
N-Hexane (CAS 110-54-3)	PEL	1800 mg/m3		
		500 ppm		
ACGIH				
Components	Туре	Value	Form	
Petroleum Oil (CAS	TWA	5 mg/m3	Oil mist	
64742-52-5)				
US. ACGIH Threshold Limit Values				
Components	Туре	Value		
2,2-dimethylbutane (CAS 75-83-2)	STEL	1000 ppm		
,	TWA	500 ppm		

US. ACGIH Threshold Lim	it Values			
Components	Туре			Value
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
N-Hexane (CAS 110-54-3)	TWA TWA			500 ppm 50 ppm
US. NIOSH: Pocket Guide	to Chemical Hazards			
Components	Туре			Value
N-Hexane (CAS 110-54-3)	TWA			180 mg/m3 50 ppm
Biological limit values	ro Indiano			
ACGIH Biological Exposu Components	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, ple	ase see the source door	ument.		
Exposure guidelines				
US - California OELs: Skir	1 designation			
n-Hexane (CAS 110-54 US ACGIH Threshold Limi			e absorbed th	rough the skin.
n-Hexane (CAS 110-54	I-3)	Can be	e absorbed th	rough the skin.
Appropriate engineering controls	should be matched or other engineering exposure limits have	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 measure Eye/face protection	s, such as personal pr Wear safety glasses	•••		
Skin protection				
Hand protection	Wear appropriate cl	hemical resistant g	loves.	
Other	Wear appropriate cl	hemical resistant c	lothing. Use c	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 th	nermal protective c	lothing, 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 chemica	I properties			
Appearance				
Physical state	Gas.			
Form	Aerosol. Liquefied g	jas.		
Color	Red.			
Odor	Mild. Solvent.			
Odor threshold	Not established			

Melting point/freezing point

рΗ

Not applicable

Not applicable

Initial boiling point and boiling range	~70.2°C (158°F)
Flash point	> -20.2 °F (> -29.0 °C) (bulk liquid) estimated
Evaporation rate	< 1 (Ethyl Ether =1)
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1.8 %
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
Partition coefficient (n-octanol/water)	Not established
Auto-ignition temperature	Not established
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.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.

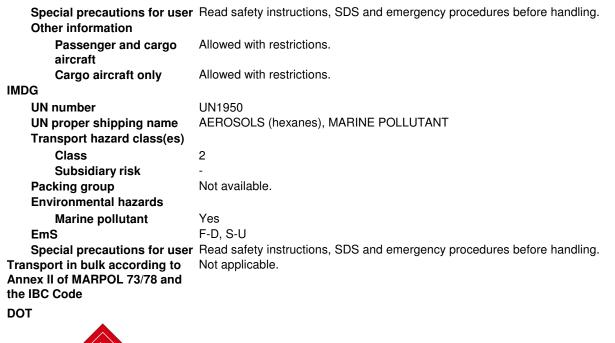
11. Toxicological information

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 ef	fects
Acute toxicity	Not expected to be acutely toxic.

Components	Species		Test Results
Distillates Petroleum Hydrotreated	Light (CAS 647	47-8)	
Acute			
Dermal	D		
LD50	Rabbit		> 2000 mg/kg
Inhalation			
Vapor	Det		
LC50	Rat		> 4.5 mg/l, 4 Hours
n-Hexane (CAS 110-54-3)			
<u>Acute</u>			
Dermal LD50	Rabbit		> 2000 ma/kg 4 Hours
	nabbii		> 2000 mg/kg, 4 Hours
Petroleum Oil (CAS 64742-52-5)			
<u>Acute</u> Dermal			
LD50	Rabbit		> 2000 mg/kg
Inhalation	Tabbit		> 2000 mg/kg
LC50	Rat		> 3.9 mg/l, 4 Hours
Oral	Hat		> 0.0 mg/i, + noui3
LD50	Rat		> 2000 mg/kg
			> 2000 mg/ng
Skin corrosion/irritation	Causes skin i		- tion
Serious eye damage/eye irritation	Direct contact	h eyes may cause temporary irrita	allon.
Respiratory or skin sensitization	1		
Respiratory sensitization		sensitizer.	
Skin sensitization	Not a respiratory sensitizer. This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product is	t considered to be a carcinogen b	by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall Not listed. OSHA Specifically Regulate			
Not regulated.			
US. National Toxicology Pro	ogram (NTP) Re	t on Carcinogens	
Not listed.			
Reproductive toxicity	Suspected of	naging fertility or the unborn child	
Specific target organ toxicity - single exposure	May cause dr	iness and dizziness.	
Specific target organ toxicity - repeated exposure	May cause damage to organs (nervous system) through prolonged or repeated exposure by inhalation.		
Aspiration hazard	Not likely, due	the form of the product.	
Chronic effects	May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.		
Further information	Symptoms may be delayed.		
12. Ecological information	1		
Ecotoxicity	The product is		zardous. However, this does not exclude the armful or damaging effect on the environment.
Components	, ., .,	pecies	Test Results
Distillates Petroleum Hydrotre	ated Light (CAS		
Aquatic		/	
-	LC50	ainbow trout,donaldson trout Incorhynchus mykiss)	2.9 mg/l, 96 hours

Components	Species	Test Results	
n-Hexane (CAS 110-54-3)			
Aquatic			
-	.C50 Fathead minnow (Pime	ohales promelas) 2.101 - 2.981 mg/l, 96 hours	
* Estimates for product may be	based on additional component data no	ot shown.	
Persistence and degradability	Not inherently biodegradable.		
Bioaccumulative potential			
Partition coefficient n-octano	ol / water (log Kow)		
2,2-Dimethylbutane	3.82		
2,3-Dimethylbutane	3.42		
2-Methylpentane 3-Methylpentane	3.74 3.6		
n-Hexane	3.0		
	No data available.		
		amounds which have a photochamical azona areation	
	potential.	ompounds which have a photochemical ozone creation	
13. Disposal considerations	S		
•		d containers at licensed waste disposal site. Contents erate or crush. Dispose of contents/container in accordance I regulations.	
Local disposal regulations	Dispose in accordance with all applicate	ole regulations.	
	The waste code should be assigned in disposal company.	discussion between the user, the producer and the waste	
	D001: Waste Flammable material with D003: Waste Reactive material	a flash point <140 F	
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).		
	Since emptied containers may retain product residue, follow label warnings even after container i 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			
DOT			
	UN1950		
	Aerosols, flammable, (each not exceed	ing 1 L capacity)	
	2.1		
Subsidiary risk	-		
-	2.1		
	Not available.		
Environmental hazards			
	No		
• •	•	ergency procedures before handling.	
	N82 306		
	None		
	None		
IATA			
UN number	UN1950		
UN proper shipping name	Aerosols, flammable		
Transport hazard class(es)			
	2.1		
Subsidiary risk	-		
Dooking group	Not available.		
· · · · · · · · · · · · · · · · · · ·	N/		
Environmental hazards	Yes 10L		





IATA; IMDG



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

for nogalatory informatio				
US federal regulations	This product is a "Haza Standard, 29 CFR 1910		lefined by the OSHA Haza	rd Communication
TSCA Section 12(b) Export	Notification (40 CFR 707	', Subpt. D)		
Not regulated.				
CERCLA Hazardous Subst	· · · ·			
n-Hexane (CAS 110-54-		Listed.		
SARA 304 Emergency relea	ase notification			
Not regulated. OSHA Specifically Regulate	ed Substances (29 CEB 1	910 1001-1050)		
Not regulated.		310.1001-1030)		
Superfund Amendments and R	equitherization Act of 109			
Hazard categories	Immediate Hazard - Yes	. ,		
	Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No	-		
SARA 302 Extremely hazar	dous substance			
Not listed.				
SARA 311/312 Hazardous chemical	Yes			
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
N-HEXANE		110-54-3	1 - 5	
Other federal regulations				
Clean Air Act (CAA) Sectio	n 112 Hazardous Air Poll	utants (HAPs) List		
n-Hexane (CAS 110-54-	3)			
Clean Air Act (CAA) Sectio	n 112(r) Accidental Relea	se Prevention (40 C	FR 68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations			forcement Act of 1986 (Prontly listed as carcinogens of	oposition 65): This material or reproductive toxins.
US. California. Candida subd. (a))	ate Chemicals List. Safer	Consumer Product	s Regulations (Cal. Code	e Regs, tit. 22, 69502.3,
n-Hexane (CAS 110 Petroleum Gases, L Petroleum Oil (CAS	iquefied, Sweetened (CAS	68476-86-8)		
International Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Australia	Australian Inventory of (Chemical Substances	s (AICS)	Yes
Canada	Domestic Substances L		· ·	Yes
Canada	Non-Domestic Substan			No
China	Inventory of Existing Ch	. ,	n China (IECSC)	Yes
Europe	European Inventory of E Substances (EINECS)			Yes
Europe	European List of Notifie	d Chemical Substand	ces (ELINCS)	No
Japan	Inventory of Existing an			No
Korea	Existing Chemicals List		. ,	Yes
New Zealand	New Zealand Inventory	. ,		Yes
Philippines	Philippine Inventory of ((PICCS)	Chemicals and Chem	ical Substances	Yes
United States & Puerto Rico *A "Yes" indicates that all compo	Toxic Substances Conti	· · · ·	•	Yes governing country(s)

*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, including date of preparation or last revision

Issue date Version #	03-31-2017 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	This document has undergone significant changes and should be reviewed in its entirety.