SAFETY DATA SHEET

1. Identification

Product identifier LPS® Clear Penetrating Grease

Other means of identification

Part Number 06716, C06716

Recommended use A clear, fast penetrating grease designed to go on wet and quickly set-up as a tacky grease.

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 hazards Flammable aerosols Category 1

Gases under pressure Compressed gas

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

Environmental hazards Not classified.

Label elements



Signal word Danger

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

irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May be fatal if

swallowed and enters airways.

Precautionary statement

Prevention 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. Avoid breathing gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated

area. Wear eye protection/face protection. Wear protective gloves.

Response IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON

SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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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.

Other hazards None known. Supplemental information None known.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
White Mineral Oil		8042-47-5	30 - 40
Heptane		142-82-5	20 - 30
Acetone		67-64-1	10 - 20
1-Decene Homopolymer		68037-01-4	5 - 10
Aluminum Benzoate Fatty Acid Complex		82980-54-9	1 - 5
Polybutene (Isobutylene/butene copolymer)		9003-29-6	1 - 5
Carbon Dioxide		124-38-9	1 - 3
Sorbitan monooleate		1338-43-8	1 - 3

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.

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

medical advice/attention. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Not likely, due to the form of the product. Call a physician or poison control center immediately. Ingestion

Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content

doesn't get into the lungs.

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Most important Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, symptoms/effects, acute and

redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. delayed Provide general supportive measures and treat symptomatically. Keep victim under observation.

Indication of immediate medical attention and special Symptoms may be delayed. treatment needed

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Fire-fighting measures

General information

Suitable extinguishing media Unsuitable extinguishing media

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

Specific methods

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. Cool containers exposed to heat with water spray and remove container, if no risk is involved. 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.

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not

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breathe fumes.

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. Avoid breathing 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

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. Avoid breathing gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, 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).

9000 mg/m3 5000 ppm

2050 mg/m3 500 ppm

1640 mg/m3

8. Exposure controls/personal protection

Occupational exposure limits

US.	ACGIH	Threshold	Limit	Values
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Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm	
·	TWA	5000 ppm	
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
Canada. Alberta OELs (Occupation	nal Health & Safety Code, Sc	nedule 1, Table 2)	
Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	1800 mg/m3	
		750 ppm	
	TWA	1200 mg/m3	
		500 ppm	
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
•		30000 ppm	

TWA

STEL

TWA

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Heptane (CAS 142-82-5)

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400 ppm

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occup	pational Health and
Safety Regulation 296/97 as amended)	

Safety Regulation 296/97, as amo	ended)	, .
Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	500 ppm
	TWA	250 ppm
Carbon Dioxide (CAS 124-38-9)	STEL	15000 ppm
	TWA	5000 ppm
Heptane (CAS 142-82-5)	STEL	500 ppm
	TWA	400 ppm
Canada. Manitoba OELs (Reg. 21	17/2006, The Workplace Safety	And Health Act)
Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	500 ppm
,	TWA	250 ppm
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm
,	TWA	5000 ppm
Heptane (CAS 142-82-5)	STEL	500 ppm
	TWA	400 ppm
Canada. Ontario OELs. (Control	of Exposure to Biological or C	Chemical Agents)
Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
Heptane (CAS 142-82-5)	STEL	500 ppm
	TWA	400 ppm
	of Labor - Regulation Respec	ting the Quality of the Work Environment)
Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	2380 mg/m3
		1000 ppm
	TWA	1190 mg/m3
		500 ppm
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3
•		30000 ppm
	TWA	9000 mg/m3
		5000 ppm
Heptane (CAS 142-82-5)	STEL	2050 mg/m3
. ,		500 ppm
	TWA	1640 mg/m3
		400

Biological limit values

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	25 mg/l	Acetone	Urine	*

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

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 facilities and emergency shower must be available when handling this product.

400 ppm

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.

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 hygieneConsiderations
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.
Color Beige.

Odor Acetone.

Odor threshold Not available.
PH Not available.
Melting point/freezing point Not available.
Initial boiling point and boiling 132.8 °F (56 °C)

range

Flash point 132.8 °F (56.0 °C) Tag Closed Cup

Evaporation rate Not available.
Flammability (solid, gas) Flammable gas.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.
Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density 2 (air = 1)

Relative density Not available.

Solubility(ies)

Solubility (water) Partially miscible

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity 260 cP @ 75°F (concentrate)

Other information

Density 6.80

Explosive properties

Heat of combustion

Oxidizing properties

Percent volatile

Specific gravity

Not explosive.

> 30 kJ/g

Not oxidizing.

41.5 %

0.82

VOC 24.5 % per U.S. State and Federal Consumer Product Regulations

10. Stability and reactivity

ReactivityThe 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

Acids. Strong oxidizing agents.

Hazardous docomposit

Hazardous decomposition

products

Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing,

redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Narcotic effects.

Components Species Test Results

Components	Species	Test Results
1-Decene Homopolymer (CA	AS 68037-01-4)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2 ml/kg, 24 Hours
Inhalation		
LC50	Rat	0.9 mg/l, 4 Hours
Oral		
LD50	Rat	> 5 ml/kg
Acetone (CAS 67-64-1)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 20 ml/kg, 24 Hours
Inhalation		
Vapor		
LC50	Rat	50.1 mg/l, 4 Hours
Oral		
LD50	Rat	9.1 ml/kg
Heptane (CAS 142-82-5)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
Inhalation		

Inhalation

Vapor

LC50 Rat > 29.29 mg/l, 4 Hours

Oral

LD50 Rat > 5000 mg/kg

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

<u>Acute</u>

Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Oral

LD50 Rat > 2000 mg/kg

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Components Species Test Results

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

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization 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 not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH Carcinogens

Acetone (CAS 67-64-1)

A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Acetone (CAS 67-64-1) Not classifiable as a human carcinogen.

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

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.

Further information Symptoms may be delayed.

12. Ecological information

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.

Species Test Results Components Acetone (CAS 67-64-1) Aquatic Crustacea EC50 Water flea (Daphnia magna) 10294 - 17704 mg/l, 48 hours Fish LC50 Rainbow trout, donaldson trout 4740 - 6330 mg/l, 96 hours (Oncorhynchus mykiss) Heptane (CAS 142-82-5) Aquatic Fish LC50 375 mg/l, 96 hours Mozambique tilapia (Tilapia mossambica)

Persistence and degradability No data is available.

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Acetone -0.24 Heptane 4.66

Mobility in soil No data available.

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.

Local disposal regulations

Dispose in accordance with all applicable regulations.

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

disposal company.

D001: Waste Flammable material with a flash point <140 F

D003: Waste Reactive material

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).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

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

UN number UN1950

UN proper shipping name AEROSOLS, flammable, MARINE POLLUTANT

Transport hazard class(es)

2.1 **Class** Subsidiary risk

Packing group Not applicable.

Environmental hazards Yes

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

IATA

UN1950 **UN number**

UN proper shipping name Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk

Packing group Not applicable.

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 Cargo aircraft only

Allowed with restrictions.

IMDG

UN1950 **UN number**

UN proper shipping name Aerosol, (n-heptane), MARINE POLLUTANT

Not applicable.

Allowed with restrictions.

Transport hazard class(es)

2.1 **Class** Subsidiary risk Label(s) 2.1

Not applicable. Packing group

Environmental hazards

Marine pollutant Yes **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

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IATA; IMDG; TDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant. Ensure compliance with applicable regulations.

15. Regulatory information

Canadian regulations

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Carbon Dioxide (CAS 124-38-9)

Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

Acetone (CAS 67-64-1)

Precursor Control Regulations

Acetone (CAS 67-64-1) Class B

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Carbon Dioxide (CAS 124-38-9)

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)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
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

Listed.

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

New Zealand New Zealand Inventory No.

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

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

Yes

No

*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

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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 Uses

Hazards Identification: EU Hazard Classifications Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Transport Information: Material Transportation Information

Regulatory Information: United States

HazReg Data: North America

GHS: Classification

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