# PROBRANDS

# SAFETY DATA SHEET

#### 1. Identification

Product identifier LPS® ZeroTri®

Other means of identification

Part Number C03528, C03505, C03555

Recommended use An industrial degreaser designed to remove oil, grease, wax, moisture, dirt or other contaminants

from parts and equipments.

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company nameITW Pro BrandsAddress4647 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

Not classified.

# 2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 2Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2A

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

Environmental hazards

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin

irritation. Causes serious eye irritation. May cause drowsiness or dizziness.

**Precautionary statement** 

**Prevention** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing mist or vapor. 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® ZeroTri® sds canada

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

SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to

extinguish.

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

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

Other hazards Static accumulating flammable liquid can become electrostatically charged even in bonded and

grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information None known

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%	
ACETONE		67-64-1	30 - 40	
Heptane, Branched, Cyclic and linear		426260-76-6	30 - 40	
METHYLCYCLOHEXANE		108-87-2	20 - 30	
PENTYL ACETATE		628-63-7	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

**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**Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation

occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

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

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

symptoms/effects, acute and delayed

Indication of immediate

medical attention and special treatment needed

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

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water

immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

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General information

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing

before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

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

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

Specific hazards arising from

the chemical Special protective equipment

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

and precautions for firefighters

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** Highly flammable liquid and vapor.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. 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

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. 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.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

# **Environmental precautions**

# 7. Handling and storage

# Precautions for safe 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. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. 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. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

## Occupational exposure limits

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	
ACETONE (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
METHYLCYCLOHEXANE (CAS 108-87-2)	TWA	400 ppm	
PENTYL ACETATE (CAS 628-63-7)	STEL	100 ppm	
	TWA	50 ppm	
Canada. Alberta OELs (Occupation	onal Health & Safety Code, Sc	hedule 1, Table 2)	
Components	Туре	Value	
ACETONE (CAS 67-64-1)	STEL	1800 mg/m3	
		750 ppm	
	TWA	1200 mg/m3	
		500 ppm	
METHYLCYCLOHEXANE (CAS 108-87-2)	TWA	1610 mg/m3	
,		400 ppm	
PENTYL ACETATE (CAS 628-63-7)	STEL	532 mg/m3	
,		100 ppm	
	TWA	266 mg/m3	
		50 ppm	

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

Safety Regulation 296/97, as ame	nded)	
Components	Туре	Value
ACETONE (CAS 67-64-1)	STEL	500 ppm
	TWA	250 ppm
METHYLCYCLOHEXANE (CAS 108-87-2)	TWA	400 ppm
PENTYL ACETATE (CAS 628-63-7)	STEL	100 ppm
	TWA	50 ppm
Canada. Manitoba OELs (Reg. 21)	7/2006, The Workplace Safety	y And Health Act)
Components	Туре	Value
ACETONE (CAS 67-64-1)	STEL	500 ppm
	TWA	250 ppm
METHYLCYCLOHEXANE (CAS 108-87-2)	TWA	400 ppm
PENTYL ACETATE (CAS 628-63-7)	STEL	100 ppm
	TWA	50 ppm
Canada. Ontario OELs. (Control o	f Exposure to Biological or C	Chemical Agents)
Components	Туре	Value
ACETONE (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
METHYLCYCLOHEXANE (CAS 108-87-2)	TWA	400 ppm
PENTYL ACETATE (CAS 628-63-7)	STEL	100 ppm
·	TWA	50 ppm
Canada. Quebec OELs. (Ministry	of Labor - Regulation Respec	cting 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
METHYLCYCLOHEXANE (CAS 108-87-2)	TWA	1610 mg/m3
,		400 ppm
PENTYL ACETATE (CAS 628-63-7)	STEL	532 mg/m3
•		100 ppm
	TWA	266 mg/m3 50 ppm
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### Bio

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

<sup>\* -</sup> For sampling details, please see the source document.

### Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. 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.

# Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye wash fountain and emergency showers Eye/face protection are recommended.

Skin protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove Hand protection

supplier.

Other Wear appropriate chemical resistant clothing.

Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, Respiratory protection

exposure levels are not known, or any other circumstances where air-purifying respirators may not

provide adequate protection.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene 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 considerations

clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

Physical state Liquid. **Form** Liquid.

Color Clear. Colorless. Ether-like. Fruity. Odor Not established Odor threshold Not applicable Melting point/freezing point Not established Initial boiling point and boiling

> 132.8 °F (> 56 °C)

range

1.4 °F (-17.0 °C) Tag Closed Cup Flash point

**Evaporation rate** > 1 (BuAc = 1)Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits 1.2 %

Flammability limit - lower

(%)

Flammability limit - upper

(%)

12.8 %

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

Vapor pressure > 75 mm Hg @ 20°C

 $\sim 3 \text{ (air} = 1)$ Vapor density Relative density Not available.

Solubility(ies)

35 % w/w Solubility (water) Partition coefficient Not available.

(n-octanol/water)

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

Other information

**Viscosity** 

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

Percent volatile 100 %

0.74 - 0.76 @ 20°C Specific gravity

VOC 65 % per U.S. 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 Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

**Incompatible materials** Acids. Strong oxidizing agents.

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

METHYLCYCLOHEXANE (CAS 108-87-2)

Acute Dermal

LD50 Rabbit > 2000 mg/kg, 24 Hours

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

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

PENTYL ACETATE (CAS 628-63-7) Irritant

**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.

Components Species Test Results

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)

METHYLCYCLOHEXANE (CAS 108-87-2)

Aquatic

Fish LC50 Striped bass (Morone saxatilis) 5.8 mg/l, 96 hours

PENTYL ACETATE (CAS 628-63-7)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) 65 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

ACETONE -0.24
METHYLCYCLOHEXANE 3.61
PENTYL ACETATE 2.3

Mobility in soilNo data available.Other adverse effectsNone known.

# 13. Disposal considerations

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

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

**Local disposal regulations** Dispose in accordance with all applicable regulations.

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

disposal company.

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.

#### 14. Transport information

TDG

UN number UN1993

UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Heptanes, Acetone), MARINE POLLUTANT

Transport hazard class(es)

Class 3
Subsidiary risk Packing group II
Environmental hazards Yes

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

IATA

UN number UN1993

**UN proper shipping name** Flammable liquid, n.o.s. (Heptanes, Acetone)

Transport hazard class(es)

Class 3
Subsidiary risk Packing group II
Environmental hazards Yes
ERG Code 3H

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

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Allowed with restrictions. Cargo aircraft only

**IMDG** 

**UN number** UN1993

**UN proper shipping name** FLAMMABLE LIQUID, N.O.S. (Heptanes, Acetone), MARINE POLLUTANT

Transport hazard class(es)

**Class** 3 Subsidiary risk Ш Packing group

**Environmental hazards** 

Marine pollutant Yes F-E, S-E **EmS** 

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

Not established. Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

IATA; IMDG; TDG



#### Marine pollutant



IMDG Regulated Marine Pollutant. **General information** 

# 15. Regulatory information

Canadian regulations

**Controlled Drugs and Substances Act** 

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Not listed.

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**

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

 Issue date
 11-02-2016

 Revision date
 04-19-2017

Version # 02

**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** Hazard(s) identification: Supplemental information

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

Composition / Information on Ingredients: Disclosure Overrides

GHS: Classification

Material name: LPS® ZeroTri® sds canada

Yes