# PROBRANDS

### SAFETY DATA SHEET

#### 1. Identification

Product identifier LPS® HDX

Other means of identification

**Part Number** 01005, 01055, C01005, C01055

**Recommended use** A degreaser designed to remove grease, oil, dirt and other residues from metal and other hard

surfaces near ignition sources.

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 Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A
Germ cell mutagenicity Category 2
Carcinogenicity Category 1B

Specific target organ toxicity, single exposure Category 3 narcotic effects

Environmental hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes skin irritation. Causes serious eye irritation. Suspected of causing genetic defects. May

cause cancer. May cause drowsiness or dizziness.

**Precautionary statement** 

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

and understood. 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.

Response IF ON SKIN: Wash with plenty of 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. 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. If eye irritation persists: Get medical advice/attention. Take off

contaminated clothing and wash it before reuse.

Storage 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 None known.

Supplemental information None known.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
TRICHLOROETHYLENE		79-01-6	90 - 100

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 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 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** Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

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.

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 attendance.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. 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

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

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

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods
General fire hazards

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

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. 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. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

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

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers.

**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. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Value

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container.

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

Components

US. ACGII	1 Threshold	<b>Limit Values</b>
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TRICHLOROETHYLENE (CAS 79-01-6)	STEL	25 ppm	
,	TWA	10 ppm	
Canada. Alberta OELs (Occupation	onal Health & Safety Code, Sc	nedule 1, Table 2)	
Components	Туре	Value	
TRICHLOROETHYLENE (CAS 79-01-6)	STEL	537 mg/m3	
,		100 ppm	
	TWA	269 mg/m3	
		50 ppm	

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

Components	Туре	Value
TRICHLOROETHYLENE (CAS 79-01-6)	STEL	25 ppm
,	TWA	10 ppm

Type

## Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value
TRICHLOROETHYLENE (CAS 79-01-6)	STEL	25 ppm
,	TWA	10 ppm

## Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	туре	value
TRICHLOROETHYLENE (CAS 79-01-6)	STEL	25 ppm
,	TWA	10 ppm

## Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

Components	Туре	Value	
TRICHLOROETHYLENE (CAS 79-01-6)	STEL	1070 mg/m3	
		200 ppm	
	TWA	269 mg/m3	
		50 ppm	

#### **Biological limit values**

#### **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
TRICHLOROETHYLENE (CAS 79-01-6)	15 mg/l	Trichloroacetic acid	Urine	*
	0.5 mg/l	Trichloroethano I, without hydrolysis	Blood	*

<sup>\* -</sup> 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.

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

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 considerations

Observe any medical surveillance requirements. 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** 

Liquid. Physical state **Form** Liquid. Color Light brown. Odor Sweet, Spice. Odor threshold Not established pН Not applicable Melting point/freezing point Not established Initial boiling point and boiling 188.6 °F (87 °C)

range

Flash point Tag Closed Cup (None)

Evaporation rate 0.3 (Ethyl Ether = 1)

Flammability (solid, gas) Not applicable.

8 %

#### Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper 10.5 %

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 58 mm Hg @ 20°C

Vapor density 4.5

Relative density Not available.

Solubility(ies)

Solubility (water) 0.1 % Partition coefficient 2.4

(n-octanol/water)

Auto-ignition temperature> 788 °F (> 420 °C)Decomposition temperatureNot establishedViscosity0.53 cP @ 25° C

Other information

Explosive properties Not explosive.

Heat of combustion < 20 kJ/g

Oxidizing properties Not oxidizing.

Percent volatile 100 %

1.41 - 1.47 @ 20°C Specific gravity

VOC 100 %

#### 10. Stability and reactivity

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

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

Conditions to avoid

reactions

Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Carbon oxides.

#### 11. Toxicological information

#### Information on likely routes of exposure

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

harmful.

Skin contact Causes skin irritation.

Causes serious eye irritation. **Eve contact** 

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics 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

Narcotic effects. Acute toxicity

Components Species **Test Results** 

TRICHLOROETHYLENE (CAS 79-01-6)

**Acute** Oral

LD50 Rat 4920 mg/kg

Causes skin irritation. Skin corrosion/irritation Serious eve damage/eve

irritation

Causes serious eye 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 Suspected of causing genetic defects.

Carcinogenicity May cause cancer.

**ACGIH Carcinogens** 

TRICHLOROETHYLENE (CAS 79-01-6) A2 Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

TRICHLOROETHYLENE (CAS 79-01-6) Suspected human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

TRICHLOROETHYLENE (CAS 79-01-6) 1 Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

TRICHLOROETHYLENE (CAS 79-01-6) Reasonably Anticipated to be a Human Carcinogen.

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

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard** 

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

**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

TRICHLOROETHYLENE (CAS 79-01-6)

Aquatic

Fish LC50 Flagfish (Jordanella floridae) 3.1 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)

LPS® HDX 2.4
TRICHLOROETHYLENE 2.61

Mobility in soil No data available.

Other adverse effects None 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.

D040: Waste Trichloroethylene

F001

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 UN1710

UN proper shipping name TRICHLOROETHYLENE

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk Packing group III
Environmental hazards No

Special precautions for user Not available.

IATA

UN number UN1710

UN proper shipping name

Transport hazard class(es)

Trichloroethylene

Class 6.1(PGIII)

Subsidiary risk Packing group III
Environmental hazards No
ERG Code 6A

Special precautions for user Not available.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

**IMDG** 

UN number UN1710

UN proper shipping name TRICHLOROETHYLENE

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk - Packing group |||

**Environmental hazards** 

Marine pollutant No
EmS F-A, S-A
Special precautions for user Not available.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

IATA; IMDG; TDG



#### 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)

TRICHLOROETHYLENE (CAS 79-01-6)

#### **Precursor Control Regulations**

Not regulated.

#### 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)	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)	Yes

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

Korea Existing Chemicals List (ECL)

New Zealand

New Zealand Inventory

Yes

Philippines Philippine Inventory of Chemicals and Chemical Substances Yes

(PICCS)

Taiwan Taiwan Toxic Chemical Substances (TCS)

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

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
 10-18-2016

 Revision date
 02-19-2018

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** Physical & Chemical Properties: Multiple Properties