SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

LPS® HDX

of the mixture

Registration number

Synonyms None

01005, 01055, M01005, M01055 **Part Number**

18-October-2016 Issue date

Version number 01

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses A degreaser designed to remove grease, oil, dirt and other residues from metal and other hard

surfaces near ignition sources.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier Alsco Ltd

Company name Unit 13 Hillmead Industrial Estate

Marshall Road **Address**

Swindon, Wiltshire

United Kingdom SN5 5FZ

Telephone +44 1793 733 900 In Case of Emergency +001 703-527-3887

Manufacturer

ITW Pro Brands Company name

4647 Hugh Howell Rd., Tucker, GA 30084 (U.S.A.) **Address**

Website http://www.lpslabs.com e-mail lpssds@itwprobrands.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification Carc. Cat. 2;R45, Xi;R36/38, R67, R52/53

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Skin corrosion/irritation Category 2 H315 - Causes skin irritation. Serious eye damage/eye irritation Category 2 H319 - Causes serious eve

irritation.

Germ cell mutagenicity Category 2 H341 - Suspected of causing

genetic defects.

Carcinogenicity Category 1B H350 - May cause cancer.

Specific target organ toxicity - single Category 3 narcotic effects H336 - May cause drowsiness or

dizziness.

Environmental hazards

exposure

Hazardous to the aquatic environment. H412 - Harmful to aquatic life with Category 3

long-term aquatic hazard long lasting effects.

Hazard summary

Physical hazards Not classified for physical hazards.

Health hazards May cause cancer. May cause heritable genetic damage. Irritating to eyes and skin. Vapours may

cause drowsiness and dizziness. Occupational exposure to the substance or mixture may cause

adverse health effects.

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Environmental hazards Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Specific hazards Prolonged exposure may cause chronic effects.

Main symptoms 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.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: 1,1,2-trichloroethylene

Hazard pictograms



Signal word Danger

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing mist or vapour.
P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.
P312 Call a POISON CENTER/doctor if you feel unwell.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None known. **2.3. Other hazards** None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
1,1,2-trichloroethylene		90 - 100	79-01-6 201-167-4	-	602-027-00-9	
Classification:	DSD:	Carc. Cat. 2;R4	5, Muta. Cat. 3;R68	3, Xi;R36/38, R67, R52/53		
	CLP:		5, Eye Irrit. 2;H319, tic Chronic 3;H412	, STOT SE 3;H336, Muta. 2;H3	341, Carc.	

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List of abbreviations and symbols that may be used above

DSD: Directive 67/548/EEC. CLP: Regulation No. 1272/2008.

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.

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

Composition comments The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

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.

4.1. Description of first aid measures

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

CENTRE 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.

4.2. Most important symptoms and effects, both 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.

4.3. Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

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.

5.2. Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective

equipment for firefighters

Special fire fighting procedures

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

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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 vapour. 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

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

contained. Use personal protection recommended in Section 8 of the SDS.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

SDS

6.2. Environmental precautions Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.

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6.3. Methods and material for containment and cleaning up

Prevent product from entering drains.

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.

6.4. Reference to other sections

Use personal protection recommended in Section 8 of the SDS. For waste disposal, see section

SECTION 7: Handling and storage

7.1. 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 vapour. 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. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

Austria. TRK List, OEL Ordinance (GwV), BGBI. II, no. 184/2001

8.1. Control parameters

Occupational exposure limits

Components	Туре	Value
1,1,2-trichloroethylene (CAS 79-01-6)	STEL	13,2 mg/m3
,		2,4 ppm
	TWA	3,3 mg/m3
		0,6 ppm
Belgium. Exposure Limit Values	i <u>.</u>	
Components	Туре	Value
1,1,2-trichloroethylene (CAS 79-01-6)	STEL	137 mg/m3
		25 ppm
	TWA	55 mg/m3
		10 ppm
Bulgaria. OELs. Regulation No 1	3 on protection of workers again	inst risks of exposure to chemical agents at work
Components	Туре	Value
1,1,2-trichloroethylene CAS 79-01-6)	STEL	1000 mg/m3
,	TWA	135 mg/m3
Croatia. Dangerous Substance I	Exposure Limit Values in the Wo	orkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09
Components	Туре	Value
1,1,2-trichloroethylene (CAS 79-01-6)	MAC	550 mg/m3
,		100 ppm
	STEL	820 mg/m3
		150 ppm
Cyprus. OELs. Control of factory	atmosphere and dangerous su	ubstances in factories regulation, PI 311/73, as amended.
Components	Type	Value
1,1,2-trichloroethylene (CAS 79-01-6)	TWA	535 mg/m3
,		100 ppm
Czech Republic. OELs. Governn	nent Decree 361	
Components	Туре	Value
1,1,2-trichloroethylene (CAS 79-01-6)	Ceiling	750 mg/m3

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Czech Republic. OELs. Governmen Components	Type	Value
· · · · · · · · · · · · · · · · · · ·	TWA	250 mg/m3
Denmark. Exposure Limit Values	1000	230 mg/m3
Components	Туре	Value
1,1,2-trichloroethylene	TLV	55 mg/m3
(CAS 79-01-6)	, - '	•
		10 ppm
Estonia. OELs. Occupational Expos 2001)	sure Limits of Hazardous Substances.	(Annex of Regulation No. 293 of 18 September
Components	Туре	Value
1,1,2-trichloroethylene	STEL	140 mg/m3
(CAS 79-01-6)		05
	TWA	25 ppm 50 mg/m3
	IWA	10 ppm
Sintend Wedenlage Francisco Limit	_	το ρριτι
Finland. Workplace Exposure Limit Components	s Type	Value
1,1,2-trichloroethylene	TWA	50 mg/m3
CAS 79-01-6)	1 4 4 7	oo mg/mo
		10 ppm
	EP) for Occupational Exposure to Che	
Components	Туре	Value
1,1,2-trichloroethylene	VLE	1080 mg/m3
(CAS 79-01-6)		200 ppm
	VME	405 mg/m3
	VIVIL	75 ppm
Greece. OELs (Decree No. 90/1999,	as amended)	. С рр
Components	Type	Value
1,1,2-trichloroethylene	STEL	1080 mg/m3
(CAS 79-01-6)	5	
		200 ppm
	TWA	538 mg/m3
		100 ppm
Hungary. OELs. Joint Decree on Ch		Value
Components	Туре	Value
1,1,2-trichloroethylene (CAS 79-01-6)	STEL	540 mg/m3
(OAS 75-01-0)	TWA	270 mg/m3
Iceland. OELs. Regulation 154/1999	on occupational exposure limits	· ·
Components	Туре	Value
1,1,2-trichloroethylene	TWA	55 mg/m3
(CAS 79-01-6)		10
		10 ppm
lreland. Occupational Exposure Lin Components	nits Type	Value
1,1,2-trichloroethylene (CAS 79-01-6)	STEL	25 ppm
(,	TWA	10 ppm
Italy. Occupational Exposure Limits	3	
Components	Туре	Value
	STEL	25 ppm
1,1,2-trichloroethylene		•
1,1,2-trichloroethylene (CAS 79-01-6)	T) 4 / 4	
(CAS 79-01-6)	TWA	10 ppm
CAS 79-01-6) _atvia. OELs. Occupational exposu	re limit values of chemical substance	s in work environment
(CAS 79-01-6)		• •

Components	or Chemical Substances, Gene Type	Value	
1,1,2-trichloroethylene (CAS 79-01-6)	STEL	140 mg/m3	
(CAS 79-01-0)		25 ppm	
	TWA	50 mg/m3	
	IVVA	-	
		10 ppm	
Norway. Administrative Norms f Components	or Contaminants in the Workpl Type	ace Value	
1,1,2-trichloroethylene (CAS 79-01-6)	TLV	50 mg/m3	
		10 ppm	
Poland. MACs. Regulation rega	rding maximum permissible co	ncentrations and intensities of harmful factors in t	he wo
environment, Annex 1			
Components	Туре	Value	
1,1,2-trichloroethylene (CAS 79-01-6)	STEL	100 mg/m3	
, , , , , , , , , , , , , , , , , , , ,	TWA	50 mg/m3	
Portugal. VLEs. Norm on occup	ational exposure to chemical a	· ·	
Components	Type	Value	
1,1,2-trichloroethylene (CAS 79-01-6)	STEL	100 ppm	
	TWA	50 ppm	
Romania. OELs. Protection of w Components	orkers from exposure to chemi Type	cal agents at the workplace Value	
1,1,2-trichloroethylene (CAS 79-01-6)	STEL	150 mg/m3	
(2,13,13,0)		28 ppm	
	TWA	100 mg/m3	
		18,5 ppm	
01	and a transfer Board Research	• •	
	and mutagens. Regulation No. Type	46/2002 on carcinogenic and mutagenic substance Value	es
Slovakia. OELs for carcinogens Components 1,1,2-trichloroethylene (CAS 79-01-6)		46/2002 on carcinogenic and mutagenic substant Value 275 mg/m3	es
Components 1,1,2-trichloroethylene	Туре	46/2002 on carcinogenic and mutagenic substance Value	ces
Components 1,1,2-trichloroethylene (CAS 79-01-6) Slovenia. OELs. Regulations co	Type TWA ncerning protection of workers	46/2002 on carcinogenic and mutagenic substant Value 275 mg/m3	
Components 1,1,2-trichloroethylene (CAS 79-01-6) Slovenia. OELs. Regulations co (Official Gazette of the Republic	Type TWA ncerning protection of workers	46/2002 on carcinogenic and mutagenic substance Value 275 mg/m3 50 ppm	
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UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	
1,1,2-trichloroethylene (CAS 79-01-6)	STEL	820 mg/m3	
,		150 ppm	
	TWA	550 mg/m3	
		100 ppm	

Biological limit values

Croatia. BLV. Dangerous Substance Exposure Limit Values at Workplace, Annexes 4 (as amended)

Components	Value	Determinant	Specimen	Sampling time	
1,1,2-trichloroethylene (CAS 79-01-6)	75 mg/g	Trichloroacetic acid	Creatinine in urine	*	
	4 mg/l	Trichloroethano I	Blood	*	
	0,04 mg/l	Trichloroethyle ne	Blood	*	
	51,92 mmol/mol	Trichloroacetic acid	Creatinine in urine	*	
	20,8 nmol/l	Trichloroethyle ne	End-exhaled air	*	
	0,5 ppm	Trichloroethyle ne	End-exhaled air	*	
	26,77 umol/l	Trichloroethano I	Blood	*	
	0,3 umol/l	Trichloroethyle ne	Blood	*	

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

Czech Republic. Limit Values for Indictators of Biological Exposure Tests in Urine and Blood, Annex 2, Tables 1 and 2, Government Decree 432/2003 Sb.

Components	Value	Determinant	Specimen	Sampling time	
1,1,2-trichloroethylene (CAS 79-01-6)	70 μmol/mmol	Trichloroacetic acid	Creatinine in urine	*	
	150 μmol/mmol	Trichloroethano I	Creatinine in urine	*	
	200 mg/g	Trichloroethano I	Creatinine in urine	*	
	100 mg/g	Trichloroacetic acid	Creatinine in urine	*	

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

Finland. HTP-arvot, App 2., Biological Limit Values, (BRA/BGV), Social Affairs and Ministry of Health						
Components	Value	Determinant	Specimen	Sampling time		
1,1,2-trichloroethylene	120 umol/l	Trichloroacetic	Urine	*		
(CAS 79-01-6)		acid				

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

France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065) Components Value **Determinant Specimen** Sampling time 1,1,2-trichloroethylene 300 mg/g Somme de Creatinine in (CAS 79-01-6) l'acide urine trichioroacétiqu e et du trichloroéthanol 100 mg/g Acide Creatinine in trichloroacétiqu urine 4 mg/l Trichloroéthano Blood I libre

Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices

Components	Value	Determinant	Specimen	Sampling time
1,1,2-trichloroethylene (CAS 79-01-6)	50 mg/g	Trichloroacetic acid	Creatinine in urine	*
	35 µmol/mmol	Trichloroacetic acid	Creatinine in urine	*

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

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4					
Components	Value	Determinant	Specimen	Sampling time	
1,1,2-trichloroethylene (CAS 79-01-6)	15 mg/l	Ácido tricloroacético	Urine	*	
	0,5 mg/l	Tricloroetanol, sin hidrólisis	Blood	*	

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

Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)						
Components	Value	Determinant	Specimen	Sampling time		
1,1,2-trichloroethylene	40 mg/l	Trichloressigsä	Urine	*		

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

Recommended monitoring procedures

Follow standard monitoring procedures.

ure

Derived no effect levels (DNELs)

(CAS 79-01-6)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls

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

General information

Use personal protective equipment as required. Personal protection equipment should be chosen

according to the CEN standards and in discussion with the supplier of the 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.

Hygiene measures 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.

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Liquid. Physical state **Form** Liquid. Colour Light brown. Sweet, Spice. Odour **Odour threshold** Not established pН Not applicable Not established Melting point/freezing point Initial boiling point and boiling 87 °C (188,6 °F)

range

Flash point Tag closed cup (None)

Evaporation rate 0,3 (Ethyl Ether = 1)

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper

Vapour pressure

58 mm Hg @ 20°C

10,5 %

4.5 Vapour density

Not available. Relative density

Solubility(ies)

0.1 % Solubility (water)

Solubility (other) Not available.

Partition coefficient 2,4

(n-octanol/water)

> 420 °C (> 788 °F)

Not oxidising.

Decomposition temperature Not established 0.53 cP @ 25° C Viscosity **Explosive properties** Not explosive.

Oxidising properties 9.2. Other information

Auto-ignition temperature

Heat of combustion < 20 kJ/gPercent volatile 100 %

Specific gravity 1.41 - 1.47 @ 20°C

VOC 97,8 %

SECTION 10: Stability and reactivity

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

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Contact with incompatible materials. 10.4. Conditions to avoid

10.5. Incompatible materials Strong oxidising agents.

Carbon oxides. 10.6. Hazardous

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

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

harmful.

Causes skin irritation. Skin contact

Eye contact Causes serious eye irritation.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms 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.

11.1. Information on toxicological effects

Narcotic effects. **Acute toxicity**

Components **Species Test results**

1,1,2-trichloroethylene (CAS 79-01-6)

Acute Dermal

LD50 Rabbit 20 ml/kg

Inhalation

LC50 Rat 12500 ppm, 4 Hours

Material name: LPS® HDX - ITW Pro Brands (EU)

Components Species Test results

Oral

LD50 Rat 4920 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory sensitisation Not a respiratory sensitizer.

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

Germ cell mutagenicity Suspected of causing genetic defects.

Slovenia. CMR. Protection of workers from exposure to carcinogen and mutagen agents (ULRS 101/2005, as amended)

1,1,2-trichloroethylene (CAS 79-01-6) Mutagenic, Category 2.

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working

(Official Gazette of the Republic of Slovenia)

1,1,2-trichloroethylene (CAS 79-01-6) Mutagenic, Category 2.

Carcinogenicity May cause cancer.

ACGIH Carcinogens

1,1,2-trichloroethylene (CAS 79-01-6)

Suspected human carcinogen. A2

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work

(as amended)

1,1,2-trichloroethylene (CAS 79-01-6)

IARC Monographs. Overall Evaluation of Carcinogenicity

1,1,2-trichloroethylene (CAS 79-01-6) 1 Carcinogenic to humans.

Slovenia. CMR. Protection of workers from exposure to carcinogen and mutagen agents (ULRS 101/2005, as amended)

1,1,2-trichloroethylene (CAS 79-01-6) Carcinogenic, Category 1B.

Reproductive toxicityThis 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 Not an aspiration hazard.

Mixture versus substance No information available.

information

ino iniormation available.

Other information Symptoms may be delayed.

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects. Based on available data, the classification criteria

are not met for hazardous to the aquatic environment, acute hazard.

Components Species Test results

1,1,2-trichloroethylene (CAS 79-01-6)

Aquatic

Fish LC50 Flagfish (Jordanella floridae) 3,1 mg/l, 96 hours

12.2. Persistence and

degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative potential

Partition coefficient

n-octanol/water (log Kow)

LPS® HDX 2,4 1,1,2-trichloroethylene 2,61

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT Not available.

and vPvB assessment

12.6. Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste 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

EU waste codeThe Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN1710

14.2. UN proper shipping Trichloroethylene

name

14.3. Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk Label(s) 6.1
Hazard No. (ADR) 60
Tunnel restriction code E
14.4. Packing group III
14.5. Environmental hazards No

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

for user

RID

14.1. UN number UN1710

14.2. UN proper shipping Trichloroethylene

name

14.3. Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk Label(s) 6.1

14.4. Packing group III

14.5. Environmental hazards No

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

for user

ADN

14.1. UN number UN1710

14.2. UN proper shipping Trichloroethylene

name

14.3. Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk Label(s) 6.1

14.4. Packing group III

14.5. Environmental hazards No

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

for user

IATA

14.1. UN number UN1710

14.2. UN proper shipping Trichloroethylene

name

14.3. Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk 14.4. Packing group III
14.5. Environmental hazards No
ERG Code 6A

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

for user

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Allowed with restrictions. Cargo aircraft only

IMDG

UN1710 14.1. UN number

14.2. UN proper shipping TRICHLOROETHYLENE

name

14.3. Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk 14.4. Packing group Ш 14.5. Environmental hazards Marine pollutant No **EmS** F-A, S-A

Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions

for user

14.7. Transport in bulk Not established.

according to Annex II of Marpol

and the IBC Code

ADN: ADR: IATA: IMDG: RID



SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture **EU** regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

1,1,2-trichloroethylene (CAS 79-01-6)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

1,1,2-trichloroethylene (CAS 79-01-6)

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended 1,1,2-trichloroethylene (CAS 79-01-6)

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended 1,1,2-trichloroethylene (CAS 79-01-6)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

1,1,2-trichloroethylene (CAS 79-01-6)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations Pregnant women should not work with the product, if there is the least risk of exposure. The

product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No

1907/2006, as amended.

National regulations Follow national regulation for work with chemical agents. Young people under 18 years old are not

allowed to work with this product according to EU Directive 94/33/EC on the protection of young

people at work, as amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations Not available.

References Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R36/38 Irritating to eyes and skin.

R45 May cause cancer.

R46 May cause heritable genetic damage.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R67 Vapours may cause drowsiness and dizziness.

R68 Possible risk of irreversible effects.

H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H341 Suspected of causing genetic defects.

H350 May cause cancer.

H412 Harmful to aquatic life with long lasting effects.

Revision information Training information This document has undergone significant changes and should be reviewed in its entirety.

Follow training instructions when handling this material.

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.

Material name: LPS $\tiny B$ HDX - ITW Pro Brands (EU)

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