



SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture LPS® Plastic Safe Electrical Cleaner
Registration number -
Synonyms None.
Part Number 04620, M04620
Issue date 19-October-2015
Version number 01

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

Identified uses An aerosol remover of dirt, moisture, dust, flux or oxides from the internal components of electronic or precision equipment.
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
Address Marshall Road
Swindon, Wiltshire
United Kingdom SN5 5FZ
Telephone +44 1793 733 900
In Case of Emergency +001 703-527-3887
Manufacturer
Company name ITW Pro Brands
Address 4647 Hugh Howell Rd., Tucker, GA 30084 (U.S.A.)
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

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

Classification R5, Xi;R36, R67, R52/53

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

Physical hazards

Aerosols Category 3 H229 - Pressurized container: May burst if heated.

Health hazards

Acute toxicity, inhalation Category 4
Serious eye damage/eye irritation Category 2 H319 - Causes serious eye irritation.
Specific target organ toxicity - single exposure Category 3 narcotic effects H336 - May cause drowsiness or dizziness.

Hazard summary

Physical hazards Heating may cause an explosion.
Health hazards Irritating to eyes. Vapours may cause drowsiness and dizziness.
Environmental hazards Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Specific hazards Heating may cause an explosion. Irritating to eyes. Do not breathe gas, fumes, or vapour. May cause central nervous system effects.

Main symptoms

Causes serious eye damage. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Narcosis. Decrease in motor functions. Behavioural changes.

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

Contains: Ethane, 1,1,1,2-Tetrafluoro (HFC-134a), Isopropanol

Hazard pictograms**Signal word**

Warning

Hazard statements

H229 Pressurized container: May burst if heated.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Precautionary statements**Prevention**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P251 Do not pierce or burn, even after use.
 P251 Pressurised container: Do not pierce or burn, even after use.
 P264 Wash thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear eye protection/face protection.

Response

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.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal

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

Supplemental label information None.

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
Ethane, 1,1,1,2-Tetrafluoro (HFC-134a)	70 - 100	811-97-2 212-377-0	-	-	
Classification:					
DSD:					-
CLP:					-
1,2-Trans-Dichloroethylene	1 - 10	156-60-5 205-860-2	-	602-026-00-3	
Classification:					
DSD:		F;R11, Xn;R20, R52/53			C
CLP:		Flam. Liq. 2;H225, Acute Tox. 4;H302, Acute Tox. 4;H332, Aquatic Chronic 3;H412			C
Isopropanol	1 - 5	67-63-0 200-661-7	-	603-117-00-0	
Classification:					
DSD:		F;R11, Xi;R36, R67			
CLP:		Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336			

List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

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

M: M-factor

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

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing. Wash off with soap and water. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation develops and persists.

Eye contact Remove contact lenses, if present and easy to do. Rinse cautiously with water for several minutes. Get medical attention if irritation develops and persists.

Ingestion IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and delayed Irritation of eyes and mucous membranes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause drowsiness or dizziness. Narcosis. Decrease in motor functions. Behavioural changes. Prolonged exposure may cause chronic effects.

4.3. Indication of any immediate medical attention and special treatment needed In case of shortness of breath, give oxygen. Keep victim warm. 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 Extinguishing media - small fires Dry chemical powder. Extinguishing media - large fires Foam, water spray or fog.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture Contents under pressure. Pressurised container may explode when exposed to heat or flame.

5.3. Advice for firefighters

Special protective equipment for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus.

Special fire fighting procedures Containers should be cooled with water to prevent vapor pressure build up. Use water spray to cool unopened containers.

Specific methods Cool containers exposed to flames with water until well after the fire is out.

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. Ensure adequate ventilation.

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

6.2. Environmental precautions No special environmental precautions required.

6.3. Methods and material for containment and cleaning up ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Refer to attached safety data sheets and/or instructions for use. Keep combustibles (wood, paper, oil etc) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Following product recovery, flush area with water. For waste disposal, see section 13.

6.4. Reference to other sections Use personal protection recommended in Section 8 of the SDS. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Pressurised container: Do not pierce or burn, even after use. 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. Ground and bond containers when transferring material. Do not use if spray button is missing or defective. Do not re-use empty containers.

Do not taste or swallow. Use only in well-ventilated areas. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Contents under pressure. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Avoid exposure to long periods of sunlight. Keep out of the reach of children.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value
1,2-TRANS-DICHLOROETHYLENE (CAS 156-60-5)	MAK	790 mg/m ³
	STEL	200 ppm 3160 mg/m ³
Ethane, 1,1,1,2-Tetrafluoro (HFC-134a) (CAS 811-97-2)	MAK	800 ppm 4200 mg/m ³
	STEL	1000 ppm 16800 mg/m ³
Isopropanol (CAS 67-63-0)	MAK	4000 ppm 500 mg/m ³
	STEL	200 ppm 2000 mg/m ³ 800 ppm

Belgium. Exposure Limit Values.

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m ³
		400 ppm
	TWA	500 mg/m ³ 200 ppm

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	1225 mg/m ³
	TWA	980 mg/m ³

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Components	Type	Value
Ethane, 1,1,1,2-Tetrafluoro (HFC-134a) (CAS 811-97-2)	MAC	4240 mg/m ³
		1000 ppm
Isopropanol (CAS 67-63-0)	MAC	999 mg/m ³
		400 ppm
	STEL	1250 mg/m ³ 500 ppm

Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.

Components	Type	Value
Isopropanol (CAS 67-63-0)	TWA	980 mg/m ³
		400 ppm

Czech Republic. OELs. Government Decree 361

Components	Type	Value
Isopropanol (CAS 67-63-0)	Ceiling	1000 mg/m ³

Czech Republic. OELs. Government Decree 361

Components	Type	Value
	TWA	500 mg/m3

Denmark. Exposure Limit Values Components

Components	Type	Value
1,2-TRANS-DICHLOROETHYLENE (CAS 156-60-5)	TLV	790 mg/m3
Isopropanol (CAS 67-63-0)	TLV	200 ppm
		490 mg/m3
		200 ppm

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	600 mg/m3
		250 ppm
	TWA	350 mg/m3
		150 ppm

Finland. Workplace Exposure Limits Components

Components	Type	Value
1,2-TRANS-DICHLOROETHYLENE (CAS 156-60-5)	STEL	1000 mg/m3
		250 ppm
	TWA	800 mg/m3
Isopropanol (CAS 67-63-0)	STEL	200 ppm
		620 mg/m3
	TWA	250 ppm
		500 mg/m3
		200 ppm

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value
Isopropanol (CAS 67-63-0)	VLE	980 mg/m3
		400 ppm

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value
1,2-TRANS-DICHLOROETHYLENE (CAS 156-60-5)	TWA	800 mg/m3
		200 ppm
Ethane, 1,1,1,2-Tetrafluoro (HFC-134a) (CAS 811-97-2)	TWA	4200 mg/m3
		1000 ppm
Isopropanol (CAS 67-63-0)	TWA	500 mg/m3
		200 ppm

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace Components

Components	Type	Value
Ethane, 1,1,1,2-Tetrafluoro (HFC-134a) (CAS 811-97-2)	AGW	4200 mg/m3
		1000 ppm
Isopropanol (CAS 67-63-0)	AGW	500 mg/m3
		200 ppm

Greece. OELs (Decree No. 90/1999, as amended) Components

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	1225 mg/m3
		500 ppm
	TWA	980 mg/m3
		400 ppm

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	2000 mg/m3
	TWA	500 mg/m3

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Components	Type	Value
1,2-TRANS-DICHLOROET HYLENE (CAS 156-60-5)	TWA	790 mg/m3
Isopropanol (CAS 67-63-0)		200 ppm
		490 mg/m3
		200 ppm

Ireland. Occupational Exposure Limits

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm

Italy. Occupational Exposure Limits

Components	Type	Value
1,2-TRANS-DICHLOROET HYLENE (CAS 156-60-5)	TWA	200 ppm
Isopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	600 mg/m3
	TWA	350 mg/m3

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Components	Type	Value
Ethane, 1,1,1,2-Tetrafluoro (HFC-134a) (CAS 811-97-2)	STEL	3000 mg/m3
		750 ppm
	TWA	2000 mg/m3
Isopropanol (CAS 67-63-0)		500 ppm
	STEL	600 mg/m3
		250 ppm
	TWA	350 mg/m3
		150 ppm

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value
Isopropanol (CAS 67-63-0)	TLV	245 mg/m3
		100 ppm

Poland. MACs. Regulation regarding maximum permissible concentrations and intensities of harmful factors in the work environment, Annex 1

Components	Type	Value
1,2-TRANS-DICHLOROET HYLENE (CAS 156-60-5)	TWA	700 mg/m3
Isopropanol (CAS 67-63-0)	STEL	1200 mg/m3
	TWA	900 mg/m3

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Components	Type	Value
1,2-TRANS-DICHLOROET HYLENE (CAS 156-60-5)	TWA	200 ppm
Isopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	500 mg/m3
		203 ppm
	TWA	200 mg/m3

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Components	Type	Value
		81 ppm

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m ³
		400 ppm
	TWA	500 mg/m ³
		200 ppm

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components	Type	Value
Ethane, 1,1,1,2-Tetrafluoro (HFC-134a) (CAS 811-97-2)	TWA	4200 mg/m ³
		1000 ppm
Isopropanol (CAS 67-63-0)	TWA	500 mg/m ³
		200 ppm

Spain. Occupational Exposure Limits

Components	Type	Value
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m ³
		400 ppm
	TWA	500 mg/m ³
		200 ppm

Sweden. Occupational Exposure Limit Values

Components	Type	Value
Ethane, 1,1,1,2-Tetrafluoro (HFC-134a) (CAS 811-97-2)	STEL	3000 mg/m ³
		750 ppm
	TWA	2000 mg/m ³
Isopropanol (CAS 67-63-0)		500 ppm
	STEL	600 mg/m ³
	TWA	250 ppm
		350 mg/m ³
		150 ppm

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value
1,2-TRANS-DICHLOROETHYLENE (CAS 156-60-5)	STEL	1580 mg/m ³
		400 ppm
	TWA	790 mg/m ³
Ethane, 1,1,1,2-Tetrafluoro (HFC-134a) (CAS 811-97-2)		200 ppm
	TWA	4200 mg/m ³
		1000 ppm
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m ³
		400 ppm
	TWA	500 mg/m ³
		200 ppm

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Ethane, 1,1,1,2-Tetrafluoro (HFC-134a) (CAS 811-97-2)	TWA	4240 mg/m ³
		1000 ppm
Isopropanol (CAS 67-63-0)	STEL	1250 mg/m ³
		500 ppm
	TWA	999 mg/m ³
		400 ppm

Biological limit values

Germany. TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling time
Isopropanol (CAS 67-63-0)	25 mg/l	Aceton	Urine	*
	25 mg/l	Aceton	Blood	*

* - 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
Isopropanol (CAS 67-63-0)	40 mg/l	Acetona	Urine	*

* - 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
Isopropanol (CAS 67-63-0)	25 mg/l	Aceton	Urine	*
	25 mg/l	Aceton	Blood	*

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

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no-effect level (DNEL) 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.

Individual protection measures, such as personal protective equipment

General information Not available.

Eye/face protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.

Skin protection

- Hand protection Chemical resistant gloves are recommended.

- Other Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Avoid contact with the skin. Wear appropriate chemical resistant clothing. Chemical resistant gloves.

Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Thermal hazards Not applicable.

Hygiene measures Avoid contact with eyes. Avoid contact with skin. Wash hands after handling and before eating. Avoid contact with clothing. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practices.

Environmental exposure controls Not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear. Liquid.
Physical state	Not available.
Form	Aerosol
Colour	Colorless
Odour	Mild. Ether-like.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	not determined
Flash point	None. Method: TCC

Evaporation rate	> 1 (Ethyl Ether =1)
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available
Flammability limit - upper (%)	Not available
Vapour pressure	not determined
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	< 5 % w/w
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	< 1
Auto-ignition temperature	not determined
Decomposition temperature	Not available.
Viscosity	< 3 cSt @ 25°C
Explosive properties	Not available.
Oxidising properties	Not available.
9.2. Other information	
Heat of combustion	< 20 kJ/g
Percent volatile	100 %
Specific gravity	1,34 @ 25°C
VOC (Weight %)	30,6 % per California Consumer Product Regulations, 11,6% per other US State & Federal Consumer Product Regulations

SECTION 10: Stability and reactivity

10.1. Reactivity	None known.
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.
10.4. Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources.
10.5. Incompatible materials	Strong oxidising agents. Reacts violently with sodium, potassium, barium metal. Reacts with finely divided aluminum, zinc and magnesium.
10.6. Hazardous decomposition products	At thermal decomposition temperatures, carbon monoxide and carbon dioxide. Chlorine. Hydrogen fluoride. Hydrogen chloride.

SECTION 11: Toxicological information

General information	Not available.
Information on likely routes of exposure	
Inhalation	May be harmful if inhaled.
Skin contact	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Eye contact	Causes serious eye irritation.
Ingestion	May cause discomfort if swallowed.
Symptoms	Irritant effects. Narcosis. Behavioural changes. Decrease in motor functions.

11.1. Information on toxicological effects

Acute toxicity May be harmful if inhaled.

Components	Species	Test results
1,2-Trans-Dichloroethylene (CAS 156-60-5)		
Acute		
Inhalation		
LC50	Mouse	21723 ppm, 6 Hours
Oral		
LD50	Rat	1235 mg/kg

Components	Species	Test results
Isopropanol (CAS 67-63-0)		
Acute		
Dermal		
LD50	Rabbit	12800 mg/kg 16,4 ml/kg, 24 Hours
Inhalation		
<i>Vapour</i>		
LC50	Rat	> 10000 ppm, 6 Hours
Oral		
LD50	Dog	4797 mg/kg
	Mouse	3600 mg/kg
	Rabbit	5,03 g/kg
	Rat	5,84 g/kg 4,7 g/kg
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory sensitisation	Based on available data, the classification criteria are not met.	
Skin sensitisation	Based on available data, the classification criteria are not met.	
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		
Isopropanol (CAS 67-63-0)	Not classifiable as a human carcinogen. A4	
Reproductive toxicity	Based on available data, the classification criteria are not met.	
Specific target organ toxicity - single exposure	Narcotic effects.	
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.	
Aspiration hazard	Based on available data, the classification criteria are not met.	
Mixture versus substance information	Not available.	
Other information	Not available.	

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects.

Components	Species	Test results
Isopropanol (CAS 67-63-0)		
Aquatic		
Fish	LC50 Bluegill (<i>Lepomis macrochirus</i>)	> 1400 mg/l, 96 hours
12.2. Persistence and degradability	Not inherently biodegradable.	
12.3. Bioaccumulative potential	Not available.	
Partition coefficient n-octanol/water (log Kow)		
LPS® Plastic Safe Electrical Cleaner	< 1	
1,2-Trans-Dichloroethylene	2,06	
Ethane, 1,1,1,2-Tetrafluoro (HFC-134a)	1,06	
Isopropanol	0,05	

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not available.

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects

Not available.

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	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.
EU waste code	The 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. Contents under pressure. Do not puncture, incinerate or crush. This material and its container must be disposed of as hazardous waste. 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.

SECTION 14: Transport information

ADR

14.1. UN number	UN1950
14.2. UN proper shipping name	AEROSOLS
14.3. Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Label(s)	2.2
Hazard No. (ADR)	Not available.
Tunnel restriction code	D
14.4. Packing group	Not applicable.
14.5. Environmental hazards	No.
14.6. Special precautions for user	Not available.

RID

14.1. UN number	UN1950
14.2. UN proper shipping name	AEROSOLS
14.3. Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Label(s)	2.2
14.4. Packing group	Not applicable.
14.5. Environmental hazards	No.
14.6. Special precautions for user	Not available.

ADN

14.1. UN number	UN1950
14.2. UN proper shipping name	Aerosols
14.3. Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Label(s)	2.2+6.1
14.4. Packing group	Not applicable.
14.5. Environmental hazards	No.
14.6. Special precautions for user	Not available.

IATA

14.1. UN number	UN1950
14.2. UN proper shipping name	Aerosols, non-flammable
14.3. Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
14.4. Packing group	Not applicable.
14.5. Environmental hazards	No.
ERG Code	2L

14.6. Special precautions for user Not available.

Other information

Passenger and cargo aircraft Allowed.

Cargo aircraft only Allowed.

IMDG

14.1. UN number UN1950

14.2. UN proper shipping name Aerosols

14.3. Transport hazard class(es)

Class 2.2

Subsidiary risk -

Label(s) 2.2

14.4. Packing group Not applicable.

14.5. Environmental hazards

Marine pollutant No.

EmS Not available.

14.6. Special precautions for user Not available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

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

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

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

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Not listed.

Other EU regulations

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

1,2-Trans-Dichloroethylene (CAS 156-60-5)

Isopropanol (CAS 67-63-0)

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

1,2-Trans-Dichloroethylene (CAS 156-60-5)

Isopropanol (CAS 67-63-0)

Directive 94/33/EC on the protection of young people at work, as amended

Not listed.

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations

Not available.

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

Not available.

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

R11 Highly flammable.

R20 Harmful by inhalation.

R36 Irritating to eyes.

R5 Heating may cause an explosion.

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

R67 Vapours may cause drowsiness and dizziness.

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Revision information

Product and Company Identification: Product and Company Identification
SECTION 2: Hazards identification: Hazard summary
SECTION 2: Hazards identification: Prevention
SECTION 2: Hazards identification: Response
Composition / Information on Ingredients: Disclosure Overrides

Training information

Not available.

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.