

SAFETY DATA SHEET

ASSA LOCK CLEANER DE-ICER

According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

1.1. Product identifier

Product name ASSA LOCK CLEANER DE-ICER
Product number 816296100000
Internal identification 11855

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

Identified uses Antifreeze liquid.

1.3. Details of the supplier of the safety data sheet

Supplier ASSA ABLOY Opening Solutions Sweden AB
Box 371
691 05 Eskilstuna
+46 (0)16-17 70 00
helpdesk.assa@assaabloy.com

1.4. Emergency telephone number

National emergency telephone number 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Aerosol 1 - H222, H229
Health hazards Eye Irrit. 2 - H319 STOT SE 3 - H336
Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

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1,2-PROPANEDIOL		10-15%
CAS number: 57-55-6	EC number: 200-338-0	REACH registration number: 01-2119456809-23-0000
Classification Not Classified		
propane		10-15%
CAS number: 74-98-6	EC number: 200-827-9	REACH registration number: 01-2119486944-21
Classification Flam. Gas 1 - H220		
BUTANE		7.5-9.99%
CAS number: 106-97-8	EC number: 203-448-7	REACH registration number: 01-2119474691-32
Classification Flam. Gas 1 - H220		
ISOBUTANE		2.5-4.99%
CAS number: 75-28-5	EC number: 200-857-2	REACH registration number: 01-2119485395-27-0000
Classification Flam. Gas 1 - H220 Press. Gas		
PENTANE		0.1-0.99%
CAS number: 109-66-0	EC number: 203-692-4	REACH registration number: 01-2119459286-30-0000
Classification Flam. Liq. 1 - H224 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411		

The full text for all hazard statements is displayed in Section 16.

Composition comments The naphthas contain less than 0.1% benzene, which means that they are not classified as mutagenic or carcinogenic. Butane/isobutane (CAS 106-97-8/CAS 75-28-5) contains less than 0.1% (w/w) of butadiene and is therefore not classified as mutagenic or carcinogenic. UVCB: Cyclohexane (CAS 110-82-7) & n-Hexane (CAS 110-54-3).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention if any discomfort continues.

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Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	DO NOT induce vomiting. Get medical attention immediately.
Skin contact	Wash skin thoroughly with soap and water.
Eye contact	Rinse with water. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

General information	Solvent abuse can kill instantly.
Inhalation	May cause drowsiness or dizziness. Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion	Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Eye contact	Causes serious eye irritation.

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

Notes for the doctor	No specific recommendations.
Specific treatments	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable.

5.3. Advice for firefighters

Protective actions during firefighting Containers close to fire should be removed or cooled with water.

Special protective equipment for firefighters Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Usage precautions Keep away from heat, sparks and open flame. Protect against direct sunlight. Avoid eating, drinking and smoking when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Keep container dry.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

propan-2-ol

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

1,2-PROPANEDIOL

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

Long-term exposure limit (8-hour TWA): WEL 150 ppm 474 mg/m³ total vapour and particulates

BUTANE

Long-term exposure limit (8-hour TWA): WEL 600 ppm 1450 mg/m³

Short-term exposure limit (15-minute): WEL 750 ppm 1810 mg/m³

PENTANE

Long-term exposure limit (8-hour TWA): WEL 600 ppm 1800 mg/m³

HEXANE-norm

Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m³

CYCLOHEXANE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 350 mg/m³

Short-term exposure limit (15-minute): WEL 300 ppm 1050 mg/m³

WEL = Workplace Exposure Limit.

HYDROCARBONS, C6-C7, ISOALKANES, CYCLICS, <5% N-HEXANE

DNEL Professional - Dermal; Long term systemic effects: 13694 mg/kg/day
 Professional - Inhalation; Long term systemic effects: 5306 mg/m³
 Consumer - Dermal; Long term systemic effects: 1377 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 1131 mg/m³
 Consumer - Oral; Long term systemic effects: 1301 mg/kg/day

propan-2-ol (CAS: 67-63-0)

DNEL Workers - Dermal; Long term systemic effects: 888 mg/kg/day
 Workers - Inhalation; Long term systemic effects: 500 mg/m³
 Consumer - Dermal; Long term systemic effects: 319 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 89 mg/m³
 Consumer - Oral; Long term systemic effects: 26 mg/kg/day

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PNEC	<ul style="list-style-type: none"> - Fresh water; 140,9 mg/l - marine water; 140,9 mg/l - Intermittent release; 140,9 mg/l - Soil; 28 mg/kg - Reningsverk; 2251 mg/l - Sediment; 552 mg/kg - Oralt (Sekundärförgiftning); 160 mg/kg
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1,2-PROPANEDIOL (CAS: 57-55-6)

DNEL	<p>Workers - Inhalation; Long term systemic effects: 168 mg/m³</p> <p>Workers - Inhalation; Long term local effects: 10 mg/m³</p> <p>Consumer - Inhalation; Long term systemic effects: 50 mg/m³</p> <p>Consumer - Inhalation; Long term local effects: 10 mg/m³</p>
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PNEC	<ul style="list-style-type: none"> - Fresh water; 260 mg/l - marine water; 26 mg/l - STP; 20000 mg/l - Sediment (Freshwater); 572 mg/l - Sediment (Marinewater); 57.2 mg/l - Soil; 50 mg/l
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PENTANE (CAS: 109-66-0)

DNEL	<p>Workers - Dermal; Long term systemic effects: 432 mg/kg/day</p> <p>Workers - Inhalation; Long term systemic effects: 300 mg/m³</p> <p>Consumer - Dermal; Long term systemic effects: 214 mg/kg/day</p> <p>Consumer - Inhalation; Long term systemic effects: 214 mg/kg/day</p>
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PNEC	<p>Fresh water; 0,23 mg/l</p> <p>marine water; 0,23 mg/l</p> <p>Intermittent release; 0,88 mg/l</p> <p>STP; 3,6 mg/l</p> <p>Sediment (Freshwater); 1,2 mg/kg/day</p> <p>Soil; 0,55 mg/kg</p>
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CYCLOHEXANE (CAS: 110-82-7)

PNEC	<ul style="list-style-type: none"> - water; 0,009 mg/l - Sediment; 0,0029 mg/l
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8.2. Exposure controls

Protective equipment



Appropriate engineering controls

All handling should only take place in well-ventilated areas.

Eye/face protection

The following protection should be worn: Chemical splash goggles.

Hand protection

Use protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber.

Other skin and body protection

Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.

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Hygiene measures	Wash at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Use respiratory equipment with combination filter type AX2/P2
Environmental exposure controls	Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Colourless.
Odour	Solvent.
Odour threshold	Not determined.
pH	Not determined.
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	Technical impossibility to obtain the data.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Other flammability	Not determined.
Vapour pressure	360-370 kPa @ 20°C
Vapour density	Not determined.
Relative density	~0,7 @ °C
Bulk density	Not determined.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not determined.
Explosive under the influence of a flame	Yes
Oxidising properties	Not determined.
9.2. Other information	
Other information	Not relevant.
Refractive index	Not determined.

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Particle size	Not determined.
Molecular weight	Not determined.
Volatility	Highly volatile.
Saturation concentration	Not determined.
Critical temperature	Not determined.
Volatile organic compound	No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not known.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Not known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No data is available regarding the preparation it self.

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

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Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - fertility Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

General information

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation

May cause drowsiness or dizziness. Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

Ingestion

Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

Skin contact

May cause skin disorders if contact is repeated or prolonged. Repeated exposure may cause skin dryness or cracking.

Eye contact

Irritation of eyes and mucous membranes.

Acute and chronic health hazards

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: Nausea, vomiting. Headache.

Toxicological information on ingredients.

propan-2-ol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 58,400.0

Species Rat

ATE oral (mg/kg) 584.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 139,000.0

Species Rat

ATE dermal (mg/kg) 139.0

Acute toxicity - inhalation

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Acute toxicity inhalation 250,000.0
(LC₅₀ vapours mg/l)

Species Rat

ATE inhalation (vapours 250.0
mg/l)

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

propane

Acute toxicity - oral

Notes (oral LD₅₀) Not applicable.

Acute toxicity - dermal

Notes (dermal LD₅₀) Not applicable.

Acute toxicity - inhalation

Acute toxicity inhalation 20.0
(LC₅₀ vapours mg/l)

Notes (inhalation LC₅₀)

BUTANE

Acute toxicity - oral

Notes (oral LD₅₀) Not applicable.

Acute toxicity - dermal

Notes (dermal LD₅₀) Not applicable.

Acute toxicity - inhalation

Acute toxicity inhalation 20.0
(LC₅₀ vapours mg/l)

Notes (inhalation LC₅₀)

PENTANE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 400.0
mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 3,000.0
mg/kg)

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation 364.0
(LC₅₀ vapours mg/l)

Species Rat

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ATE inhalation (vapours mg/l) 364.0

HEXANE-norm

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 170.0

ATE inhalation (vapours mg/l) 170.0

CYCLOHEXANE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 6,200.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 180.0

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 13.9

Species Rat

ATE inhalation (vapours mg/l) 13.9

SECTION 12: Ecological information

Ecotoxicity There are no data on the ecotoxicity of this product.

12.1. Toxicity

Toxicity Toxic to aquatic life with long lasting effects.

Ecological information on ingredients.

propan-2-ol

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 13299 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: 1800 mg/l,

propane

Acute aquatic toxicity

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Acute toxicity - aquatic invertebrates

Highly volatile.
EC₅₀, 48 hours: 27.14 mg/l,

BUTANE

Acute aquatic toxicity

Acute toxicity - fish

Highly volatile.
LC₅₀, 96 hours: 24.11 mg/l,

Acute toxicity - aquatic invertebrates

Highly volatile.
EC₅₀, 48 hours: 14.22 mg/l, Daphnia magna

PENTANE

Acute aquatic toxicity

Acute toxicity - fish

LC₅₀, 96 hours: 4,26 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 2,7-9,1 mg/l, Daphnia magna

Acute toxicity - aquatic plants

IC₅₀, 72 hours: 7,51 mg/l, Selenastrum capricornutum

HEXANE-norm

Acute aquatic toxicity

Acute toxicity - fish

LC₅₀, 96 hours: 2,5 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 2,1 mg/l, Daphnia magna

Acute toxicity - aquatic plants

IC₅₀, 72 hours: 0,3 mg/l,

CYCLOHEXANE

Acute aquatic toxicity

LE(C)₅₀

0.1 < L(E)C₅₀ ≤ 1

M factor (Acute)

1

Acute toxicity - fish

LC₅₀, 96 hours: 34 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 0,9 mg/l, Daphnia magna

Acute toxicity - aquatic plants

IC₅₀, 72 hours: 2 mg/l,

Chronic aquatic toxicity

M factor (Chronic)

1

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

propan-2-ol

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Persistence and degradability The product is readily biodegradable.

propane

Persistence and degradability The product is readily biodegradable.

BUTANE

Persistence and degradability The product is readily biodegradable.

CYCLOHEXANE

Persistence and degradability The product is not readily biodegradable.

Biodegradation - Degradation (%) 0.6: 14 days
OECD 301C

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

propan-2-ol

Bioaccumulative potential The product is not bioaccumulating.

propane

Bioaccumulative potential The product is not bioaccumulating.

BUTANE

Bioaccumulative potential The product is not bioaccumulating.

PENTANE

Bioaccumulative potential BCF 171

Partition coefficient log Pow: 3,4

HEXANE-norm

Bioaccumulative potential BCF: 199,5,

Partition coefficient log Pow: 4,11

CYCLOHEXANE

Bioaccumulative potential BCF: 129,

Partition coefficient log Pow: 3.8

12.4. Mobility in soil

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Mobility No information available

Ecological information on ingredients.

propane

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

BUTANE

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects No information required.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

Disposal methods Residues and non empty containers should be taken care of as hazardous waste according to local and national regulations.

Waste class 14 06 03*

SECTION 14: Transport information

General Aerosols may be carried domestically as limited quantities (1L) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with diamond-shaped area, the top and bottom part is black, surrounded by a line that measures at least 100 mm x 100 mm.

14.1. UN number

UN No. (ADR/RID) 1950

UN No. (IMDG) 1950

UN No. (ICAO) 1950

UN No. (ADN) 1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOLS

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

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ADR/RID class	2
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2
ICAO class/division	2
ADN class	2

Transport labels



14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

SECTION 15: Regulatory information

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

National regulations	COUNCIL DIRECTIVE of may 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

ASSA LOCK CLEANER DE-ICER

Abbreviations and acronyms used in the safety data sheet	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>CAS: Chemical Abstracts Service.</p> <p>DNEL: Derived No Effect Level.</p> <p>EC₅₀: 50% of maximal Effective Concentration.</p> <p>IC₅₀: The half maximal inhibitory concentration.</p> <p>LC₅₀: Lethal Concentration to 50 % of a test population.</p> <p>LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>UVCB - Unknown or variable composition, complex reaction products or Biological materials.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
General information	A review of safety data sheet with staff to manage the product recommended.
Revision comments	Changes are made in the following sections: 1 3 8 11 12
Issued by	LIHU
Revision date	21/10/2021
Revision	6
Supersedes date	28/08/2019
SDS number	22369
Hazard statements in full	<p>H220 Extremely flammable gas.</p> <p>H222 Extremely flammable aerosol.</p> <p>H224 Extremely flammable liquid and vapour.</p> <p>H225 Highly flammable liquid and vapour.</p> <p>H229 Pressurised container: may burst if heated.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H319 Causes serious eye irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.