

# SAFETY DATA SHEET according to Regulation 1907/2006



Product name: **2100 Epo-Prime Spray**

Creation date: **18.7.2017** · Revision: **12.8.2019** · Version: **1**

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name

**2100 Epo-Prime Spray**



chemius.net/eLy7d

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

Relevant identified uses

Coating.

Uses advised against

No information.

### 1.3. Details of the supplier of the safety data sheet

Supplier

SILCO, D.O.O.

Address: Šentrupert 5 a, 3303 Gomilsko, Slovenia

Phone: +386 3 703 3180

Fax: +386 3 703 3188

E-mail: n.cvilak@silco-automotive.com

Point of contact for safety info: Nejc Cvilak

### 1.4. Emergency telephone number

Emergency

112

Supplier

+386 3 703 3180

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Aerosol 1; H222 Extremely flammable aerosol.

Aerosol 1; H229 Pressurised container: May burst if heated.

Skin Irrit. 2; H315 Causes skin irritation.

Skin Sens. 1; H317 May cause an allergic skin reaction.

Eye Irrit. 2; H319 Causes serious eye irritation.

STOT SE 3; H336 May cause drowsiness or dizziness.

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## 2.2 Label elements

### 2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]



Signal word: **Danger**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

P251 Do not pierce or burn, even after use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P261 Avoid breathing vapours/spray.

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

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

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.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with national regulation.

### 2.2.2. Contains:

acetone (CAS: 67-64-1, EC: 200-662-2, Index: 606-001-00-8)

propan-2-ol (CAS: 67-63-0, EC: 200-661-7, Index: 603-117-00-0)

n-butyl acetate (CAS: 123-86-4, EC: 204-658-1, Index: 607-025-00-1)

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight  $\geq$  700 < 1100) (CAS: 25068-38-6, EC: 500-033-5)

Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine (CAS: 162627-17-0)

### 2.2.3. Special provisions

Vapours and air can at inadequate ventilation form an explosive mixture.

EUH205: Contains epoxy constituents. May produce an allergic reaction.

## 2.3. Other hazards

No information.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1. Substances

For mixtures see 3.2.

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## 3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
dimethyl ether	115-10-6 204-065-8 603-019-00-8	25-50	Flam. Gas 1; H220 Press. Gas; H280		01-2119472128-37
acetone	67-64-1 200-662-2 606-001-00-8	10-25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066		01-2119471330-49
propan-2-ol	67-63-0 200-661-7 603-117-00-0	5-10	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336		01-2119457558-25
xylene [C]	1330-20-7 215-535-7 601-022-00-9	2,5-5	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 STOT RE 2; H373		-
n-butyl acetate	123-86-4 204-658-1 607-025-00-1	2,5-5	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066		01-2119485493-29
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 607-195-00-7	2,5-5	Flam. Liq. 3; H226		01-2119475791-29
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight >= 700 < 1100)	25068-38-6 500-033-5 -	1-2,5	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319		-
ethylbenzene	100-41-4 202-849-4 601-023-00-4	1-2,5	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 STOT RE 2; H373 Aquatic Chronic 3; H412		-
nitrocellulose	9004-70-0 - -	1-2,5	Expl. 1.1; H201		-
ethanol	64-17-5 200-578-6 603-002-00-5	1-2,5	Flam. Liq. 2; H225		-
ethyl acetate	141-78-6 205-500-4 607-022-00-5	1-2,5	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066		01-2119475103-46
Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine	162627-17-0 - -	<1	Skin Sens. 1; H317		-

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Notes for substances:

**C** Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers.  
In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency.

#### Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms occur, seek medical advice.

#### Following skin contact

Take off all contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms persist seek medical attention.

#### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation does not stop, seek professional medical treatment!

#### Following ingestion

Not likely. In case of doubt or if feeling unwell seek medical help.

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

#### Inhalation

Vapours may cause drowsiness and dizziness.

#### Skin contact

Causes irritation of mucous membrane.

Itching, redness, pain.

May cause sensitisation by skin contact (symptoms: itching, redness, rashes).

#### Eye contact

Redness, tearing, pain.

#### Ingestion

May cause abdominal discomfort.

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

-

## SECTION 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>).

Fire extinguishing powder.

Water spray. Extinguish large fires with water spray or alcohol-resistant foam.

#### Unsuitable extinguishing media

Full water jet.

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## 5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

-

## 5.3. Advice for firefighters

Protective actions

Cool containers at risk with water spray. If possible remove containers from endangered area. Vapours can form explosive mixtures with air.

Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

#### Protective equipment

Use personal protective equipment (Section 8).

#### Emergency procedures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking! Prevent access to unprotected personnel. Avoid contact with skin and eyes. Do not breathe vapour or mist.

6.1.2. For emergency responders

Use personal protective equipment.

### 6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

### 6.3. Methods and material for containment and cleaning up

6.3.1. For containment

-

6.3.2. For cleaning up

Collect the spray cans and hand them over to an authorized waste disposal contractor. Do not rinse contaminated area with water or aqueous cleansing agents. Make sure the leakage site is well aired.

6.3.3. Other information

See Section 7: safe handling.

### 6.4. Reference to other sections

See also Sections 8 and 13.

## SECTION 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

7.1.1. Protective measures

#### Measures to prevent fire

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Use spark-proof tools. Take precautionary measures against static discharges. Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or incandescent material. Vapours are heavier than air and spread along the floor. They form explosive mixtures with air.

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## Measures to prevent aerosol and dust generation

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## Measures to protect the environment

-

### 7.1.2. Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin and eyes. Do not breathe vapours/mist.

## 7.2. Conditions for safe storage, including any incompatibilities

### 7.2.1. Technical measures and storage conditions

Keep in cool and well ventilated area. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Follow safe storage practices for packed compressed gas as described by the Compressed Gas Association or the relevant agency in the country where the product is used.

### 7.2.2. Packaging materials

-

### 7.2.3. Requirements for storage rooms and vessels

-

### 7.2.4. Storage class

-

### 7.2.5. Further information on storage conditions

-

## 7.3. Specific end use(s)

### Recommendations

-

### Industrial sector specific solutions

-

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Name (CAS)	Limit values		Short-term exposure limit		Remarks	Biological Tolerance Values
	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>		
Acetone (67-64-1)	500	1210	1500	3620		
Butyl acetate (123-86-4)	150	724	200	966		
Dimethyl ether (115-10-6)	400	766	500	958		
Ethanol (64-17-5)	1000	1920	-	-		
Ethyl acetate (141-78-6)	200	734	400	1468		
Ethylbenzene (100-41-4)	100	441	125	552	Sk	
1-Methoxypropyl acetate (108-65-6)	50	274	100	548	Sk	
Propan-2-ol (67-63-0)	400	999	500	1250		
Xylene, o-,m-,p- or mixed isomers (1330-20-7)	50	220	100	441	Sk, BMGV	650 mmol methyl hippuric acid/mol creatinine in urine - Post shift

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### 8.1.2. Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

### 8.1.3. DNEL/DMEL values

No information.

### 8.1.4. PNEC values

No information.

## **8.2. Exposure controls**

### 8.2.1. Appropriate engineering control

#### **Substance/mixture related measures to prevent exposure during identified uses**

Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with eyes and skin. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols. Handle in accordance with good industrial hygiene and safety practice. Keep away from foodstuffs, beverages and feed.

#### **Organisational measures to prevent exposure**

Remove all contaminated clothes immediately and wash them before reuse.

#### **Technical measures to prevent exposure**

Provide good ventilation and local exhaust in areas with increased concentration.

### 8.2.2. Personal protective equipment

#### **Eye and face protection**

Safety glasses with side protection (EN 166).

#### **Hand protection**

Protective gloves (EN 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The penetration time is determined by the protective glove manufacturer and must be observed.

#### **Appropriate materials**

Material	Thickness	Penetration Time	Remark
Nitrile			Long term use.
Butyl rubber	0,7 mm		Short term use.

#### **Skin protection**

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

#### **Respiratory protection**

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).

#### **Thermal hazards**

-

### 8.2.3. Environmental exposure controls

-

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1. Information on basic physical and chemical properties**

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-	<b>Physical state:</b>	liquid; aerosol
-	<b>Colour:</b>	according to specification
-	<b>Odour:</b>	characteristic

## Important health, safety and environmental information

-	<b>pH</b>	No information.
-	<b>Melting point/freezing point</b>	No information.
-	<b>Initial boiling point/boiling range</b>	No information.
-	<b>Flash point</b>	< 0 °C
-	<b>Evaporation rate</b>	No information.
-	<b>Flammability (solid, gas)</b>	235 °C
-	<b>Explosion limits (vol%)</b>	2,6 – 18,6 vol %
-	<b>Vapour pressure</b>	3400 hPa at 20 °C
-	<b>Vapour density</b>	No information.
-	<b>Density</b>	No information.
-	<b>Solubility</b>	<b>Water:</b> Insoluble
-	<b>Partition coefficient</b>	No information.
-	<b>Auto-ignition temperature</b>	No information.
-	<b>Decomposition temperature</b>	No information.
-	<b>Viscosity</b>	No information.
-	<b>Explosive properties</b>	Product is not self igniting. Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
-	<b>Oxidising properties</b>	No information.

## 9.2. Other information

-	<b>Weight organic solvents</b>	76,9 %
-	<b>Solid contents</b>	23,1 %
-	<b>Remarks:</b>	

## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3. Possibility of hazardous reactions

Reactions with oxidising agents. Reacts when mixed with acids.

### 10.4. Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.

### 10.5. Incompatible materials

Oxidants.

Acids. Bases.



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#### 10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

(a) Acute toxicity

No information.

(b) Skin corrosion/irritation

**Additional information:** Causes skin and eye irritation.

(c) Serious eye damage/irritation

No information.

(d) Respiratory or skin sensitisation

**Additional information:** May cause an allergic skin reaction.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

**Additional information:** May cause drowsiness or dizziness.

(i) STOT-repeated exposure

**Additional information:** STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

**Additional information:** Aspiration hazard: Not classified.

### SECTION 12. ECOLOGICAL INFORMATION

#### 12.1. Toxicity

12.1.1. Acute (short-term) toxicity

No information.

12.1.2. Chronic (long-term) toxicity

No information.

#### 12.2. Persistence and degradability

12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

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## 12.2.2. Biodegradation

No information.

## **12.3. Bioaccumulative potential**

### 12.3.1. Partition coefficient

No information.

### 12.3.2. Bioconcentration factor (BCF)

No information.

## **12.4. Mobility in soil**

### 12.4.1. Known or predicted distribution to environmental compartments

No information.

### 12.4.2. Surface tension

No information.

### 12.4.3. Adsorption/Desorption

No information.

## **12.5. Results of PBT and vPvB assessment**

No evaluation.

## **12.6. Other adverse effects**

No information.

## **12.7. Additional information**

### **For product**

Do not allow to reach ground water, water courses or sewage system.

Water hazard class 1 (self-assessment): slightly hazardous for water.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

#### 13.1.1. Product / Packaging disposal

##### **Waste chemical**

Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste. Do not dispose together with household garbage. Do not allow product to reach drains/sewage systems.

##### **Packaging**

Deliver completely emptied containers to approved waste disposal authorities.

##### **Waste codes / waste designations according to LoW**

15 01 10\* - packaging containing residues of or contaminated by dangerous substances

#### 13.1.2. Waste treatment-relevant information

-

#### 13.1.3. Sewage disposal-relevant information

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#### 13.1.4. Other disposal recommendations

-

## **SECTION 14. TRANSPORT INFORMATION**

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## 14.1. UN number

UN 1950

## 14.2. UN proper shipping name

AEROSOLS

## 14.3. Transport hazard class(es)

2

## 14.4. Packing group

Not applicable.

## 14.5. Environmental hazards

NO.

## 14.6. Special precautions for user

### Limited quantities

1 L

### Tunnel restriction code

(D)

### IMDG flashpoint

0 °C, c.c.

### IMDG EmS

F-D, S-U

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

Goods may not be carried in bulk in bulk containers, containers or vehicles.

## SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

#### 15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

### 15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16. OTHER INFORMATION

### Indication of changes

-

### Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CEN - European Committee for Standardisation  
C&L - Classification and Labelling

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CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number  
CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC<sub>50</sub> - Lethal Concentration to 50 % of a test population  
LD<sub>50</sub> - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure

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SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

## Key literature references and sources for data

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## List of relevant H phrases

H201 Explosive; mass explosion hazard.  
H220 Extremely flammable gas.  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H280 Contains gas under pressure; may explode if heated.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure .  
H412 Harmful to aquatic life with long lasting effects.  
EUH066 Repeated exposure may cause skin dryness or cracking.



- Provided correct labelling of the product
- Compliance with the local legislation
- Provided correct classification of the product
- Provided adequate transport data

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