

# SAFETY DATA SHEET



according to Regulation (EC) No. 1907/2006

## L100

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

### Kemo L100

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

Use of the Substance/Mixture : Metallo-ceramic coating suited for firing, for the decoration of glass and ceramics.

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

Company : Kemo-Electronic GmbH  
Leher Landstraße 20  
D-27607 Geestland  
Telephone : +49 (0)4743 93380  
Telefax : +49 (0)4743 933822  
E-mail address : kemo-electronic@t-online.de  
Responsible/issuing person

#### 1.4 Emergency telephone number

In-Country Number : +(44)-870-8200418  
CHEMTREC Global Number : +(1)-703-527-3887(Call Collect)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.

Specific target organ toxicity - single exposure, Category 3. Central nervous system H336: May cause drowsiness or dizziness.

Acute aquatic toxicity, Category 1 H400: Very toxic to aquatic life.

Chronic aquatic toxicity, Category 1 H410: Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H225  
H336  
H410

Highly flammable liquid and vapour.  
May cause drowsiness or dizziness.  
Very toxic to aquatic life with long lasting effects.

Precautionary statements

:

**Prevention:**

P210

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

P233

Keep container tightly closed.

P261

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P273

Avoid release to the environment.

**Response:**

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P370 + P378

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

1-ethoxypropan-2-ol

acetone

ethyl acetate

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Chemical nature

:

precious metal  
glycol ether/-acetate  
natural polymer, modified  
alcohol  
aldehyde/ketone  
carbonic acid/ester/anhydride

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## Hazardous components

Chemical Name	CAS-No. EG-No. Registration number	Classification (VERORDNUNG (EG) Nr. 1272/2008)	Concentration (%)
silver	7440-22-4 231-131-3 01-2119555669-21-0032	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 25 - < 50$
1-ethoxypropan-2-ol	52125-53-8 /	Flam. Liq. 3; H226 STOT SE 3; H336	$\geq 20 - < 25$
acetone	67-64-1 200-662-2 01-2119471330-49-xxxx	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	$\geq 3 - < 10$
collodion wool, dissolved	9004-70-0 /	Flam. Liq. 2; H225	$< 10$
ethyl acetate	141-78-6 205-500-4 /	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	$\geq 1 - < 3$
Substances with a workplace exposure limit :			
ethanol	64-17-5 200-578-6 /	Flam. Liq. 2; H225	$\geq 10 - < 20$

For explanation of abbreviations see section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.  
If unconscious place in recovery position and seek medical advice.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

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If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

Symptoms : None known.  
Risks : May cause drowsiness or dizziness.

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

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

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**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

**5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Use water spray to cool unopened containers.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

- Personal precautions : Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**6.2 Environmental precautions**

- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and material for containment and cleaning up**

- Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

- For personal protection see section 8.

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**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Container may be opened only under exhaust ventilation hood  
Dispose of rinse water in accordance with local and national regulations.  
Avoid release to the environment
- Advice on protection against fire and explosion : Avoid formation of aerosol. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

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Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : No smoking. Store in cool place. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Expressed as	Basis
silver	7440-22-4	TWA	0,1 mg/m3		2000/39/EC
Further information	Indicative				
		VLE-MP	0,1 mg/m3		PT OEL
Further information	Included by specific national legislation or by not transposed community legislation, agyria				
		TWA	0.01 mg/m3 (Silver)	Silver	PT DL 305/2007
ethanol	64-17-5	VLE-MP	1,000 ppm		PT OEL
Further information	Substances that are not classified as carcinogenic for humans, irritation of the upper respiratory tract, eye irritation, damage of central nervous system				
acetone	67-64-1	TWA	500 ppm 1,210 mg/m3		2000/39/EC
Further information	Indicative				
		VLE-MP	500 ppm		PT OEL
Further information	Included by specific national legislation or by not transposed community legislation, substances that are not classified as carcinogenic for humans, identification of substances for which biological exposure values are available.				

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	There are two types: IBE A refers to acetylcholinesterase inhibitors pesticides and IBE M to metahaemoglobine inductors, hematologic effects, irritation of the upper respiratory tract, impairment of central nervous system, eye irritation				
		VLE_CD	750 ppm		PT OEL
Further information	Included by specific national legislation or by not transposed community legislation, substances that are not classified as carcinogenic for humans, Identification of substances for which biological exposure values are available. There are two types: IBE A refers to acetylcholinesterase inhibitors pesticides upper respiratory tract, impairment of central nervous system, eye irritation				
		TWA	500 ppm 1.210 mg/m3		PT DL 305/2007
ethyl acetate	141-78-6	VLE-MP	400 ppm		PT OEL
Further information	irritation of the upper respiratory tract, eye irritation				

## 8.2 Exposure controls

### Engineering measures

No data available

### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection : Solvent-resistant gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Before removing gloves clean them with soap and water. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

### Environmental exposure controls

General advice : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Appearance	: paste
Colour	: silver
Odour	: characteristic
Odour Threshold	: No data available
pH	: No data available
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: 12 °C Method:DIN 51755 Part 1
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Auto-ignition temperature	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: > 1,100 - 1,750 hPa (50 °C)
Relative vapour density	: No data available
Relative density	: No data available
Density	: 1,44 g/cm <sup>3</sup> (20 °C)
Bulk density	: No data available
Solubility(ies)	
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Thermal decomposition	: No data available



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Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: > 411 mm <sup>2</sup> /s (23 °C)
	> 473 mm <sup>2</sup> /s (20 °C)
Flow time	: 61 s at 23 °C
	Cross section: 6 mm
	Method: ISO 2431
	write protected
	> 100 s at 23 °C
	Cross section: 4 mm
	Method: ISO 2431
	write protected
	>= 90 s at 20 °C
	Cross section: 4 mm
	Method: DIN 53211
	write protected
	>= 30 s at 23 °C
	Cross section: 3 mm
	Method: ISO 2431
	write protected
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2 Other information

Refractive index	: No data available
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## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under recommended storage conditions.  
No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	: No decomposition if stored and applied as directed.
	Vapours may form explosive mixture with air.

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### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Stable under normal conditions.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

#### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

#### Product:

Remarks: No data available

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### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

May cause drowsiness or dizziness.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

### **Further information**

#### **Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause narcotic effects.

Solvents may degrease the skin.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### **Product:**

Ecotoxicology Assessment

Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

#### **Components:**

##### **acetone:**

Toxicity to fish : LC50 (Fish): 4.74 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 10.294 mg/l  
Exposure time: 48 h

##### **ethyl acetate:**

Toxicity to fish : LC50 (Fish): 220 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 560 mg/l  
Exposure time: 48 h

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Toxicity to algae : EC50 (algae): 3.300 mg/l  
Exposure time: 48 h

### **ethanol:**

Toxicity to fish : LC50 (Fish): 12 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): 9.268 mg/l  
Exposure time: 48 h

## 12.2 Persistence and degradability

### **Product:**

Biodegradability : Remarks: No data available

### **Components:**

#### **1-ethoxypropan-2-ol:**

Biodegradability : Remarks: No data available

#### **acetone:**

Biodegradability : Remarks: No data available

#### **collodion wool, dissolved:**

Biodegradability : Remarks: No data available

#### **ethyl acetate:**

Biodegradability : Remarks: No data available

#### **ethanol:**

Biodegradability : Remarks: No data available

## 12.3 Bioaccumulative potential

### **Product:**

Bioaccumulation : Remarks: No data available

### **Components:**

#### **1-ethoxypropan-2-ol:**

Bioaccumulation : Remarks: No data available

#### **acetone:**

Bioaccumulation : Remarks: No data available

#### **collodion wool, dissolved:**

Bioaccumulation : Remarks: No data available

#### **ethyl acetate:**

Bioaccumulation : Remarks: No data available

#### **ethanol:**

Bioaccumulation : Remarks: No data available

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### 12.4 Mobility in soil

#### Product:

Distribution among environmental compartments : Remarks: No data available

#### Components:

##### **1-ethoxypropan-2-ol:**

Distribution among environmental compartments : Remarks: No data available

##### **acetone:**

Distribution among environmental compartments : Remarks: No data available

##### **collodion wool, dissolved:**

Distribution among environmental compartments : Remarks: No data available

##### **ethyl acetate:**

Distribution among environmental compartments : Remarks: No data available

##### **ethanol:**

Distribution among environmental compartments : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

#### Product:

Additional ecological information : Remarks: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Very toxic to aquatic life with long lasting effects.

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**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

- Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Offer surplus and non-recyclable solutions to a licensed disposal company.  
Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14: TRANSPORT INFORMATION****14.1 UN number**

- ADN : UN 1993  
ADR : UN 1993  
RID : UN 1993  
IMDG : UN 1993  
IATA : UN 1993

**14.2 UN proper shipping name**

- ADN : FLAMMABLE LIQUID, N.O.S.  
(ethanol, silver)  
ADR : FLAMMABLE LIQUID, N.O.S.  
(ethanol, silver)  
RID : FLAMMABLE LIQUID, N.O.S.  
(ethanol, silver)  
IMDG : FLAMMABLE LIQUID, N.O.S.  
(ethanol, silver)  
IATA : Flammable liquid, n.o.s.  
(ethanol, silver)

**14.3 Transport hazard class(es)**

- ADN : 3  
ADR : 3  
RID : 3  
IMDG : 3

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**IATA** : 3

### 14.4 Packing group

#### ADN

Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Special Provisions : Special Provision 640C

#### ADR

Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : (D/E)  
Special Provisions : Special Provision 640C

#### RID

Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Special Provisions : Special Provision 640C

#### IMDG

Packing group : II  
Labels : 3  
EmS Code : F-E, S-E

#### IATA

Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : 3

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : yes

#### ADR

Environmentally hazardous : yes

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### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship type : N/A  
Pollution category : N/A

## SECTION 15: REGULATORY INFORMATION

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

International Chemical Weapons Convention (CWC) : Neither banned nor restricted  
Schedules of Toxic Chemicals and Precursors

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Neither banned nor restricted

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Neither banned nor restricted

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Neither banned nor restricted

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Neither banned nor restricted

Regulation (EC) No 850/2004 on persistent organic pollutants : Neither banned nor restricted

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL HAZARDS	100 t	200 t
P5c	FLAMMABLE LIQUIDS	5,000 t	50,000 t



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34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams)	2,500 t	25.000 t
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### The components of this product are reported in the following inventories:

REACH	: This mixture contains only ingredients which have been subject to a pre-registration according to Regulation (EC) No. 1907/2006 (REACH).
CH INV	: Not in compliance with the inventory
TSCA	: On TSCA Inventory
DSL	: All components of this product are on the Canadian DSL.
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA), CH INV (Switzerland), MY INV (Malaysia), TR INV (Turkey), TW INV (Taiwan)

## 15.2 Chemical Safety Assessment

Not applicable

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## SECTION 16: OTHER INFORMATION

### Full text of H-Statements

H225	: Highly flammable liquid and vapour.
H226	: Flammable liquid and vapour.
H319	: Causes serious eye irritation.
H336	: May cause drowsiness or dizziness.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Aquatic Acute	: Acute aquatic toxicity
Aquatic Chronic	: Chronic aquatic toxicity
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
STOT SE	: Specific target organ toxicity - single exposure

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.