

L100

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Trade name : Conducting silver

Article-No. : L100

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

Use of the Substance/Mixture : Preparation containing firing metal and ceramics for the manufacture of conductive structures or components for the electronic industry.

1.3 Details of the supplier of the safety data sheet

Company : Kemo-Electronic GmbH
Leher Landstraße 20
27607 Geestland

Telephone : +49474393380

Telefax : +494743933822

E-mail address : kemo-electronic@t-online.de

Responsible/issuing person : Umwelt / Sicherheit

1.4 Emergency telephone number

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.

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2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.
 H336 May cause drowsiness or dizziness.
 H410 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

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natural polymer, modified
 organic solvent
 aldehyde/ketone
 carbonic acid/ester/anhydride

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
silver	7440-22-4 231-131-3 01-2119555669-21-0032	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 25 - < 50
1-ethoxypropan-2-ol	52125-53-8	Flam. Liq. 3; H226 STOT SE 3; H336	>= 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	>= 3 - < 10
collodion wool, dissolved	9004-70-0	Expl. 1.1; H201 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	>= 1 - < 3
Substances with a workplace exposure limit :			
ethanol	64-17-5 200-578-6	Flam. Liq. 2; H225	>= 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.

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- 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.
- 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.

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

- Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
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.

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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.

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.

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

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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.

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/m ³		2000/39/EC
Further information	Indicative				
		VLE-MP	0.1 mg/m ³		PT OEL
Further information	Included by specific national legislation or by not transposed community legislation, agyria				
		TWA	0.01 mg/m ³ (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/m ³		2000/39/EC

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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. There are two types: IBE A refers to acetylcholinesterase inhibitors pesticides and IBE M to metahaemoglobin 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 and IBE M to metahaemoglobin inductors., hematologic effects, irritation of the upper respiratory tract, impairment of central nervous system, Eye irritation			
		TWA	500 ppm 1,210 mg/m ³	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.
- Protective measures : Wear suitable protective equipment.
Avoid contact with skin.
When using do not eat, drink or smoke.

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

Appearance	: liquid
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	: 19 %(V)
Lower explosion limit	: 2 %(V)
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 ³ (20 °C)
Bulk density	: No data available
Solubility(ies)	
Water solubility	: soluble
Solubility in other solvents	: No data available

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Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidizing properties : Not applicable

9.2 Other information

Refractive index : No data available

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.
No decomposition if used as directed.
No hazards to be specially mentioned.

Vapours may form explosive mixture with air.

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

Stable under normal conditions.

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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

Components:***ethyl acetate:***Acute oral toxicity : LD50 Oral (Rat): 6,100 mg/kg
Assessment: The substance or mixture has no acute oral toxicity***ethanol:***

Acute dermal toxicity : LD50 (Rabbit): 15,800 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:***ethanol:***

Species: Rabbit

Exposure time: 24 h

Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:***acetone:***

Assessment: Irritating to eyes.

Result: Irritating to eyes.

ethyl acetate:

Species: Rabbit

Result: No eye irritation

ethanol:

Species: Rabbit

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Method: OECD Test Guideline 405
Result: Moderate eye irritation

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

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.

Components:***1-ethoxypropan-2-ol:***

Exposure routes: inhalation (vapour)
Target Organs: Central nervous system
Assessment: 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

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Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Components:

silver:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 16 µg/l
Exposure time: 96 h
Test Type: flow-through test

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 10

acetone:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 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 (Pimephales promelas (fathead minnow)): 220 mg/l
Exposure time: 96 h
Test Type: flow-through test

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

Toxicity to algae : EC50 (algae): 3,300 mg/l
Exposure time: 48 h

ethanol:

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

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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

Partition coefficient: n-octanol/water : log Pow: 0.3

acetone:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: -0.24

collodion wool, dissolved:

Bioaccumulation : Remarks: No data available

ethyl acetate:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: 0.73 (20 °C)

ethanol:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: -0.349 (24 °C)

12.4 Mobility in soil**Product:**

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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.

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

Product : The product should not be allowed to enter drains, water courses or the soil.

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

14.3 Transport hazard class(es)

ADN : 3
ADR : 3
RID : 3
IMDG : 3
IATA : 3

14.4 Packing group

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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

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

14.6 Special precautions for user

Not applicable

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14.7 Transport in bulk according to Annex II of MARPOL 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) Schedules of Toxic Chemicals and Precursors : Neither banned nor restricted

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
P5c	FLAMMABLE LIQUIDS	5,000 t	50,000 t
E1	ENVIRONMENTAL HAZARDS	100 t	200 t
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),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with	2,500 t	25,000 t

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similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

Volatile organic compounds : Remarks: Not applicable

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 26.18 %, 376.94 g/l
Remarks: VOC content excluding water

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 26.18 %, 376.94 g/l
Remarks: VOC content valid only for coating materials used on wood surfaces

The components of this product are reported in the following inventories:

EINECS (European Union) : Not in compliance with the inventory

SWISS (Switzerland) : Not in compliance with the inventory

TSCA (United States) : On TSCA Inventory

DSL/NDSL (Canada) : All components of this product are on the Canadian DSL.

AICS (Australia) : On the inventory, or in compliance with the inventory

NZioC (New Zealand) : On the inventory, or in compliance with the inventory

ENCS (Japan) : On the inventory, or in compliance with the inventory

ISHL (Japan) : Not in compliance with the inventory

KECI (Korea) : On the inventory, or in compliance with the inventory

PICCS (Philippines) : Not in compliance with the inventory

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IECSC (China) : On the inventory, or in compliance with the inventory

TCSI (Taiwan) : On the inventory, or in compliance with the inventory

CICR (Turkey) : Not in compliance with the inventory

INSQ (Mexico) : Not in compliance with the inventory

15.2 Chemical Safety Assessment

Not applicable

SECTION 16: OTHER INFORMATION**Full text of H-Statements**

H201 : Explosive; mass explosion hazard.
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
Expl. : Explosives
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
STOT SE : Specific target organ toxicity - single exposure

eSDS Information : This material contains substances for which exposure scenarios have been completed. Please contact ExtendedSDS@Ferro.com to receive a copy of the exposure assessments.

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.