

Weicon GmbH

Revision date: 30.10.2009

Revision no.:

1,00

Plastic-Metal SF Hardener

7619-0028

## **1. Product and Company Identification**

### **Commercial product name**

Plastic-Metal SF Hardener

### **Further trade names**

10250-1

### **Chemical characterization ( Mixture )**

Hardener for a 2-component epoxy adhesive

### **Company/undertaking identification**

#### **Manufacturer**

Weicon GmbH

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## **2. Hazards Identification**

### **Route(s) of Entry**

Skin and eye contact, inhalation and ingestion.

### **Signs and Symptoms of Exposure**

DANGER!

Harmful in contact with skin and if swallowed.

Causes burns.

May cause sensitization by skin contact.

OSHA Hazard Communication: This material is considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.

Carcinogenicity (NTP): Not listed

Carcinogenicity (IARC): Not listed

Carcinogenicity (OSHA): Not listed

## **3. Composition/Information on Ingredients**

### **Hazardous components**

| CAS No.    | Components   | Quantity  |
|------------|--|-----------|
| 10563-29-8 | N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine | 5 - 13 %  |
| 14970-87-7 | 2,2'-[1,2-ethanediylbis(oxy)]bis(ethanethiol)      | 1 - 2.4 % |
| 90-72-2    | 2,4,6-tris(dimethylaminomethyl)phenol              | 1 - 2 %   |
| 104-19-8   | N,N,4-trimethylpiperazine-1-ethylamine             | 1 - 2 %   |

## **4. First Aid Measures**

### **General information**

Remove contaminated soaked clothing immediately.

### **After inhalation**

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

In the event of symptoms refer for medical treatment.

### **After contact with skin**

Take off immediately all contaminated clothing.

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In case of contact with skin wash off with soap and water.

In case of irritation consult a physician.

**After contact with eyes**

Rinse eyes immediately with large amounts of water for several minutes, especially under the eyelids.

If eye irritation persists, consult a specialist.

**After ingestion**

Do not induce vomiting.

Refer for medical treatment.

If swallowed seek medical advice immediately and show the doctor packing or label.

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**5. Fire Fighting Measures**

**Suitable extinguishing media**

Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray.

**Unsuitable extinguishing media**

Full water jet

**Special hazards arising from the chemical**

Fire may produce:

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).

**Protective equipment and precautions for firefighters**

A self contained breathing apparatus should be worn in fire conditions.

Protective suit

**Additional information**

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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**6. Accidental Release Measures**

**Personal precautions**

In case of vapour formation use respirator.

Ensure adequate ventilation.

Use personal protective clothing.

**Environmental precautions**

Clean contaminated surface thoroughly.

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

**Methods for cleaning up/taking up**

Take up with absorbent material.

Shovel into suitable container for disposal.

Clean contaminated surface thoroughly.

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**7. Handling and Storage**

**Handling**

**Advice on safe handling**

Keep container tightly closed.

Handle and open container with care.

Use only in thoroughly ventilated areas.

Avoid contact with skin, eyes and clothing. Avoid formation of aerosols.

**Advice on protection against fire and explosion**

Take precautionary measures against static discharges.

Keep away from sources of ignition - No smoking.

**Further information on handling**

Open and handle container with care.

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## **Storage**

### **Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.

Protect from direct solar radiation.

Storage temperature between 2°C to 40°C.

### **Advice on storage compatibility**

Incompatible with:

Acids and bases.

### **Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

Do not store together with food.

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## **8. Exposure Controls/Personal Protection**

### **Exposure limit values**

#### **Additional advice on limit values**

Contains epoxy compounds. Observe the instructions of the manufacturer

#### **Occupational exposure controls**

Ensure adequate ventilation, especially in confined areas.

#### **Protective and hygiene measures**

Do not inhale gases/vapours/aerosols.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothes before re-use.

#### **Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

#### **Hand protection**

Protective gloves resistant to chemicals made of butyl, Minimum coat thickness 0,7 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Pls. find examples in the GISBAU protective gloves database under:

<http://www.wingisonline.de/handschuhe/frmMain.aspx>

#### **Eye protection**

Tightly fitting goggles

Protective shield

#### **Skin protection**

Light protective clothing

Safety Shoes

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## **9. Physical and Chemical Properties**

### **Appearance**

Form: Pasty

Color: Beige

Odor: Similar to amine

### **Important health, safety and environmental information**

Test method

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pH-Value (at 20 °C): approx. 12 1:1 in water

**Changes in the physical state**

Decomposition point:

&gt;200 °C

Flash point:

&gt; 100 °C Pensky-Martens CC EN 22719

Lower explosion limits:

n.d.

Vapour pressure:  
(at 20 °C)

&lt;0,01 hPa

Density (at 20 °C):

1,15 g/cm<sup>3</sup>Water solubility:  
(at 20 °C)

More or less insoluble

**Other information**

Ignition temperature:

n.d.

**10. Stability and Reactivity****Stability**

Stable

**Conditions to avoid**

To avoid thermal decomposition, do not overheat.

**Materials to avoid**

Reactions with strong acids and alkalies.

Reactions with strong oxidizing agents.

**Hazardous decomposition products**Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>)

Toxic gases/vapours

**Possibility of Hazardous Reactions**

Will not occur

**Additional information**

No decomposition if stored and applied as directed.

**11. Toxicological Information****Acute toxicity**

LD50/oral : &gt;2000 mg/kg Rat

**Corrosive and irritant effects**

Skin irritation: Corrosive Rabbit

Eye irritation : Corrosive Rabbit eye

**Sensitizing effects**

Sensitization through skin contact possible.

Sensitization skin (guinea pig): Sensitizing

**Empirical data on effects on humans**

The product causes burns of eyes, skin and mucous membranes.

Harmful in contact with skin.

Sensitization through skin contact possible.

Ingestion causes burns of the upper digestive and respiratory tracts.

Components of the product may be absorbed into the body through the skin.

Contact with eyes may cause corneal injury.

**12. Ecological Information****Further information**

Ecological data are not available.

Do not discharge product unmonitored into the environment.

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Product is not allowed to be discharged into aquatic environment.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**13. Disposal Considerations****Advice on disposal**

Remove in accordance with local official regulations.

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

Empty containers may be recycled. Otherwise dispose of in accordance with applicable regulations.

**Contaminated packaging**

Contaminated packagings are to be treated like the product itself.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

**14. Transport Information****US DOT 49 CFR 172.101****Proper shipping name**

Amines, liquid, corrosive, n.o.s. (N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine)

ID Number: 2735

Hazard Class or Division: 8

Packing group: III

Label: 8

**Land transport (ADR/RID)**

UN number: 2735

ADR/RID class: 8

Classification Code: C7

Warning plate

Hazard-no.: 80

Hazard label: 8



ADR/RID packing group: III

Limited quantity: LQ 7

**Description of the goods**

Amines, liquid, corrosive, n.o.s. (N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine)

**Other applicable information**

LQ 7: combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass).

Tunnel restriction code: E

Transport category: 3

**Marine transport**

UN number: 2735

IMDG code: 8

Marine pollutant: No

Hazard label: 8



IMDG packing group: III

EmS: F-A; S-B

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Limited quantity:

5 L / 30 kg

**Description of the goods**

AMINES, LIQUID, CORROSIVE, N.O.S. (N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine)

**Other applicable information**

Limited quantities (section 3.4): combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass).

**Air transport**

UN/ID number:

2735

ICAO/IATA-DGR:

8

Hazard label:

8



ICAO packing group:

II

Limited quantity Passenger:

Y818 / 1 L

IATA-packing instructions - Passenger:

818

IATA-max. quantity - Passenger:

5 L

IATA-packing instructions - Cargo:

820

IATA-max. quantity - Cargo:

60 L

**Description of the goods**

AMINES, LIQUID, CORROSIVE, N.O.S. (N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine)

**15. Regulatory Information****U.S. Regulations****National Inventory TSCA**

All of the components are listed on the TSCA inventory.

**SARA**

To the best of our knowledge this product contains no toxic chemicals subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372.

**State Regulations**

This product contains max VOC: 0,97%

**Additional information**

GISCODE according to industry-specific regulation acid-proof construction of May 11th, 2006

**16. Other Information****Hazardous Materials Information Label (HMIS)**

Health: \*3

Flammability: 1

Physical Hazard: 0

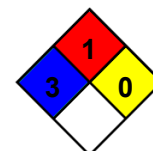
**NFPA Hazard Ratings**

Health: 3

Flammability: 1

Reactivity: 0

Unique Hazard:

**Other data**

Data of sections 4 to 8, as well as 10 to 12, do not necessarily refer to the use and the regular handling of the product (in this sense consult package leaflet and expert information), but to release of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.



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The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*