

Weicon GmbH

Revision date: 06.11.2009

Revision no.:

1,00

Plastic-Metal Ceramic BL Slow Hardener

7619-0037

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

### **Commercial product name**

Plastic-Metal Ceramic BL Slow Hardener

### **Further trade names**

10400-3

### **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**

WARNING !

Causes burns.

Harmful by inhalation, in contact with skin and if swallowed.

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
100-51-6	benzyl alcohol	35 - 47 %
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	30 - 42 %
25620-58-0	Trimethylhexane-1,6-diamine	>1 - 7 %

### **Further Information**

Aliphatic and cyclo-aliphatic polyamine.

## **4. First Aid Measures**

### **General information**

Remove contaminated soaked clothing immediately.

Consult a doctor if skin irritation persists.

### **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.

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**After contact with skin**

Wash off immediately with soap and plenty of water.

Consult a doctor if skin irritation persists.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Summon a doctor immediately.

**After ingestion**

Administer activated charcoal.

Do not induce vomiting.

If swallowed by mistake drink plenty of water and seek medical treatment.

**Advice to physician**

In the event of pulmonary irritation treat initially with dexamethasone metered-dose aerosol.

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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**

Use breathing apparatus with independent air supply.

**Additional information**

Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing.

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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**

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.

**Additional information**

Keep away sources of ignition.

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**7. Handling and Storage**

**Handling**

**Advice on safe handling**

Avoid contact with the skin and the eyes. Do not breathe vapours.

Use only in thoroughly ventilated areas.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

**Further information on handling**

Avoid formation of aerosols.

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 Open and handle container with care.
**Storage****Requirements for storage rooms and vessels**

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

Protect from heat and direct solar radiation.

Recommended storage temperature: room temperature.

**Advice on storage compatibility**

Incompatible with strong acids and bases.

Keep away from sources of ignition.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

Do not store together with food.

**8. Exposure Controls/Personal Protection****Exposure limit values****Occupational exposure controls**

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Do not inhale gases/vapours/aerosols.

Avoid contact with eyes and skin.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Remove and wash contaminated clothes before re-use.

**Respiratory protection**

Use suitable breathing apparatus if there is inadequate ventilation.

**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 &lt;Butoject 898&gt; 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.

**Eye protection**

Tightly fitting goggles

**Skin protection**

Light protective clothing

Safety Shoes

**9. Physical and Chemical Properties****Appearance**

Form:	Liquid
Color:	Light yellow
Odor:	Hardly noticeable

**Important health, safety and environmental information**

pH-Value (at 20 °C):

	Test method
approx. 11	1:1 in water

**Changes in the physical state**

Melting point: &gt;200 °C

Boiling point: &gt;200 °C

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Flash point:	108 °C	DIN 51758
Lower explosion limits:	n.d.	
Vapour pressure: (at 20 °C)	approx. 0.06 hPa	
Density (at 25 °C):	1,0 g/cm <sup>3</sup>	
Water solubility: (at 20 °C)	Partially soluble	
Viscosity / dynamic: (at 25 °C)	30 - 70 mPa·s	

**Other information**

Ignition temperature: n.d.

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

Stable

**Conditions to avoid**

No decomposition if stored and applied as directed.

**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>)**Possibility of Hazardous Reactions**

Will not occur

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

LD50/oral = 1990 mg/kg Rat

**Corrosive and irritant effects**

Skin irritation = Corrosive Rabbit

Eye irritation = Corrosive Rabbit eye

**Sensitizing effects**

Sensitization skin (guinea pig): Sensitizing

May cause sensitization by skin contact.

**Empirical data on effects on humans**

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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

Do not discharge product unmonitored into the environment.

Product is not allowed to be discharged into aquatic environment.

Harmful 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.

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

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

**Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packagings are to be treated like the product itself.

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

#### **14. Transport Information**

##### **US DOT 49 CFR 172.101**

##### **Proper shipping name**

Isophoronediamine, Solution

ID Number: 2289

Hazard Class or Division: 8

Packing group: III

Label: 8

##### **Land transport (ADR/RID)**

UN number: 2289

ADR/RID class: 8

Warning plate

Hazard-no.: 80

Hazard label: 8



ADR/RID packing group: III

##### **Description of the goods**

Isophoronediamine, Solution

##### **Marine transport**

UN number: 2289

IMDG code: 8

IMDG packing group: III

##### **Description of the goods**

ISOPHORONEDIAMINE, Solution

##### **Air transport**

UN/ID number: 2289

ICAO/IATA-DGR: 8

Hazard label: 8



ICAO packing group: III

##### **Description of the goods**

ISOPHORONEDIAMINE, Solution

#### **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.

#### **16. Other Information**

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**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.

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.)*