

Weicon GmbH

Revision date: 01.11.2009

Revision no.:

1,00

Plastic-Metal C Hardener

7619-0034

1. Product and Company Identification

Commercial product name

Plastic-Metal C Hardener

Further trade names

10100-1

Chemical characterization (Mixture)

Hardener for a 2-component epoxy adhesive

Company/undertaking identification

Manufacturer

Weicon GmbH

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D-48157 Münster

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Responsible for the safety data sheet: sds@gbk-ingelheim.de

2. Hazards Identification

Route(s) of Entry

Skin and eye contact, inhalation and ingestion.

Signs and Symptoms of Exposure

WARNING !

Causes burns.

Harmful if swallowed or inhaled.

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
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	25 - 33 %
1477-55-0	M-phenylenebis(methylamine)	15 - 23 %
616-47-7	1-methylimidazole	1 - 5 %

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

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

After ingestion

Administer activated charcoal.

Do not induce vomiting.

Give plenty of water to drink in small sips.

Summon a doctor immediately.

5. Fire Fighting Measures

Suitable extinguishing media

Foam, carbon dioxide (CO₂), dry chemical, water-spray.

Unsuitable extinguishing media

Full water jet

Special hazards arising from the chemical

Fire may produce:

Carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x).

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.

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.

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.

Open and handle container with care.

Storage

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Requirements for storage rooms and vessels

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

Storage temperature between 2°C to 40°C.

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.

In enclosed original container and at storage temperature of 25°C maximum product keeps stable for at least 12 months.

8. Exposure Controls/Personal Protection**Exposure limit values****Exposure limits**

CAS No.	Components	ppm	mg/m ³	fib/cc	Category	Origin
1477-55-0	m-Xylene-alpha, alpha'-diamine	-	C 0.1		TWA (8 h) Ceiling	REL REL

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 off nitrile, Minimum coat thickness 0.4 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Camatril 735> 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

Long sleeved clothing.

9. Physical and Chemical Properties**Appearance**

Form:

Liquid

Color:

Light yellow

Odor:

Hardly noticeable

Important health, safety and environmental information

Test method

Changes in the physical state

Boiling point:

>200 °C

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Flash point:	106 °C	Pensky-Martens CC EN 22719
Lower explosion limits:	n.d.	
Vapour pressure: (at 20 °C)	<2 hPa	
Density (at 25 °C):	1,01 g/cm ³	
Water solubility: (at 20 °C)	Immiscible	
Viscosity / dynamic: (at 25 °C)	800-16000 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

Acids, Oxidizing agents.

Hazardous decomposition productsCarbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x)

Risk of formation of toxic pyrolysis products.

Possibility of Hazardous Reactions

Will not occur

Additional information

Reactions with strong acids and alkalis.

Reactions with strong oxidizing agents.

11. Toxicological Information**Acute toxicity**

LD50/oral = approx. 1500 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**Persistence and degradability**

Slightly degradable

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.

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Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local 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.

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.

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SARA

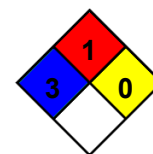
To the best of our knowledge this product contains no toxic chemicals subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372.

16. Other Information**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)"

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