

Weicon GmbH

Revision date: 20.10.2009

Revision no.:

1,00

Plastic-Metal Ceramic W Hardener

7619-0007

1. Identification of the substance/preparation and of the company/undertaking**Identification of the substance or preparation**

Plastic-Metal Ceramic W Hardener

Further trade names

10460-2

Use of the substance/preparation

Hardener

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

Supplier

WEICON Inc.

20 Steckle Place, Unit 20

Kitchener, Ontario N2E 2C3

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Emergency telephone number: 0 11 49 178 433 74 34 (CONSULTANK Lutz Harder GmbH)

2. Hazards identification**Classification**

Indications of danger : Corrosive

R-phrases:

Harmful in contact with skin and if swallowed.

Causes burns.

Risk of serious damage to eyes.

May cause sensitization by skin contact.

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

May cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients**Chemical characterization (Mixture)**

Hardener for a 2-component epoxy adhesive

Hazardous components

CAS-No.	Chemical name	Quantity
1761-71-3	4,4'-methylenebis(cyclohexylamine)	10 - 24 %
4067-16-7	pentaethylenhexamine	1 - 10 %

4. First aid measures**General information**

Remove contaminated soaked clothing immediately.

Call a physician 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.

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.

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

Refer to medical treatment.

5. Fire-fighting measures

Suitable extinguishing media

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

Extinguishing media which must not be used for safety reasons

Full water jet

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Fire may produce:

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

Special protective equipment for fire-fighters

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.

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.

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.

Weicon GmbH

Revision date: 20.10.2009

Revision no.:

1,00

Plastic-Metal Ceramic W Hardener

7619-0007

Advice on protection against fire and explosion

Take precautionary measures against static discharges.

Further information on handling

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 direct solar radiation.

Recommended storage temperature: room temperature.

Advice on storage compatibility

Incompatible with:

Acids and bases.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

Storageclass (VCI): _____ 8 A _____

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 protectionLight protective clothing

9. Physical and chemical properties**General information**

Physical state:

Pasty

Colour:

Grey

Weicon GmbH

Revision date: 20.10.2009

Revision no.:

1,00

Plastic-Metal Ceramic W Hardener

7619-0007

Odour: Characteristic

Important health, safety and environmental information

Test method

Changes in the physical state

Flash point:	> 100 °C
Lower explosion limits:	n.d.
Density (at 20 °C):	1,55 g/cm ³
Water solubility:	Insoluble

Other information

Ignition temperature: n.d.

10. Stability and reactivity**Conditions to avoid**

To avoid thermal decomposition, do not overheat.

Materials to avoid

Reactions with strong acids and alkalis.

Reactions with strong oxidizing agents.

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

Corrosive gases/vapours

Toxic pyrolysis products

Additional information

No decomposition if stored and applied as directed.

11. Toxicological information**Corrosive and irritant effects**

Skin irritation: Strong corrosive Rabbit

Eye irritation : Strong 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**

Do not discharge product unmonitored into the 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.

If recycling is not practicable, dispose of in compliance with local 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

Weicon GmbH

Revision date: 20.10.2009

Revision no.:

1,00

Plastic-Metal Ceramic W Hardener

7619-0007

for reuse.

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

14. Transport information**Canadian TDG****Proper shipping name**

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Methylenebis(cyclohexylamine) , Mixture)

UN/ID number: UN2735

Hazard classes: 8

Packing group: III

Hazard 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

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Methylenebis(cyclohexylamine) , Mixture)

Other applicable information (land transport)

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

Limited quantity: 5 L / 30 kg

Description of the goods

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Methylenebis(cyclohexylamine) , Mixture)

Other applicable information (marine transport)

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

Weicon GmbH

Revision date: 20.10.2009

Revision no.:

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Plastic-Metal Ceramic W Hardener

7619-0007



ICAO packing group:	III
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

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Methylenebis(cyclohexylamine) , Mixture)

15. Regulatory information**Canadian regulations****DSL/NDSL inventory status**

All of the components are listed on the DSL Inventory.

WHMIS classification

WHMIS: D2B & E

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

16. Other information**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.)