

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: Feb/29/2016 Version: 1 Language: en-US Date of print: Mar/7/2016

Plastic-Metal Ceramic W Hardener

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1. Product and company identification

Product identifier

Trade name: Plastic-Metal Ceramic W Hardener

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

General use: Hardener for 2 component adhesive (epoxy resin).

Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Company name: WEICON Inc.

Street/POB-No.: 20 Steckle Place, Unit 20
Postal Code, city: Kitchener, Ontario N2E 2C3, CA

 WWW:
 www.weicon.ca

 E-mail:
 info@weicon.ca

 Telephone:
 +1-519-896-5252

 Telefax:
 +1-519-896-5254

Dept. responsible for information:

Product-Safety-Department

Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

Additional information: WEICON GmbH & Co. KG

Königsberger Straße 255

Münster 48157 www.weicon.de info@weicon.de +49(0)251 / 9322 - 0 +49(0)251 / 9322 - 244

Emergency phone number

GIZ, Bonn Germany (English) Telephone: +49(0)228 / 19 240

2. Hazards identification

Emergency overview

Appearance: Form: pasty

Color: white characteristic

Classification: Acute Toxicity - oral - Category 4; Skin Corrosion - Category 1B;

Sensitization - skin - Category 1;

Specific Target Organ Toxicity (Repeated Exposure) - Category 2;

Aquatic toxicity - chronic - Category 2;

Hazard symbols:

Odor:









Signal word: Danger

Hazard statements: Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.



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Precautionary statements: Do not breathe dust/fume/gas/mist/vapors/spray.

Wash hands and face thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of water/soap.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

Specific treatment (see 'First aid 'on this label).

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Collect spillage.

Store locked up.

Dispose of contents/container to hazardous or special waste collection point.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Hardener for 2 component adhesive (epoxy resin).

Hazardous ingredients:

| CAS No. | Designation | Content | Classification |
|-------------------|--|-----------|---|
| CAS 1761-71-3 | 4,4'-Methylenebis (cyclohexylamine) | 10 - 20 % | Acute Toxicity - oral - Category 4. Skin Corrosion - Category 1B. Sensitization - skin - Category 1. Specific Target Organ Toxicity (Repeated Exposure) - Category 2. |
| CAS 68131-73-7 | Amines, polyethylenepoly- | 3 - 5 % | Acute Toxicity - oral - Category 4. Acute Toxicity - dermal - Category 4. Skin Corrosion - Category 1B. Sensitization - skin - Category 1. Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1. |
| CAS 4067-16-7 | Pentacthylenehexamine | 1 - 2.5 % | Skin Corrosion - Category 1B. Sensitization - skin - Category 1. Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1. |

4. First aid measures

General information:

Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash contaminated clothing before reuse.



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In case of inhalation: Move victim to fresh air wearing a self contained breathing apparatus. Make sure

he/she is warm and comfortable. Seek medical attention.

Supply air by breathing fresh air or artificial respiration. In case of difficulties in breathing give oxygen. If breathing has stopped, give artificial respiration immediately.

Keep airway open.

Following skin contact: After contact with skin, take off immediately all contaminated clothing, and wash

immediately with plenty of water and soap. Wash contaminated clothing before reuse. Immediate medical treatment required because corrosive injuries that are not treated

are hard to cure.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids

apart. Remove contact lenses, if present and easy to do. Continue rinsing.

Subsequently seek the immediate attention of an ophthalmologist.

After swallowing: Remove person to fresh air and keep comfortable for breathing. Do not induce vomiting.

Rinse mouth with water. Let water be swallowed in little sips. Immediately get medical

attention.

Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure.

Caustic effect on skin and mucous membranes. May cause sensitization by skin contact.

Bloody lacrimation, Miosis and seizures. Danger of a allergic-anphylactic shock.

Gastrointestinal complaints.

Information to physician

Treat symptomatically. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

5. Fire fighting measures

Flash point/flash point range:

not applicable

Auto-ignition temperature: not applicable

Suitable extinguishing media:

Alcohol resistant foam, dry chemical powder, water spray jet, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

High power water jet

Specific hazards arising from the chemical

May form dangerous gases and vapours in case of fire. In case of fire may be

liberated: nitrogen oxides (NOx), metallic oxides, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting

protective clothing. In case of fire and/or explosion do not breathe fumes.

Additional information: Cool endangered containers with water jetspray. You have to dispose of contaminated

extinguishing water according to the regulations of the authorities. Do not allow fire

water to penetrate into surface or ground water.

6. Accidental release measures

Personal precautions: Provide adequate ventilation. In case of inadequate ventilation wear respiratory

protection. Avoid generation of dust.

Wear protective equipment. Take off contaminated clothing and wash it before reuse. Avoid breathing dust and vapours. Keep unprotected people away. Avoid contact with skin and eyes.

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Environmental precautions:

Do not allow to enter into ground-water, surface water or drains. Do not allow to enter

into soil/subsoil. If necessary notify appropriate authorities.

Methods for clean-up: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal

binding agents) and place in closed containers for disposal.

7. Handling and storage

Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. In case of inadequate

ventilation wear respiratory protection. Avoid generation of dust. Avoid breathing dust and vapours. Avoid contact with skin and eyes.

Wear protective equipment. Take off contaminated clothing and wash it before reuse. When using do not eat, drink or smoke. Wash hands before breaks and after work.

Precautions against fire and explosion:

Take care of general rules for industrial preventive fire protection.

Storage

Requirements for storerooms and containers:

Keep only in the original container. Protect from heat and direct sunlight. Keep

container dry.

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

Recommended storage temperature: 5-35 °C. Do not re-use the empty container. Avoid

release to the environment.

Hints on joint storage: Do not store together with acids or metals.

Keep away from food, drink and animal feedingstuffs.

8. Exposure controls / personal protection

Engineering controls

Provide good ventilation and/or an exhaust system in the work area.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI

Z87.1-2010.

Skin protection Wear suitable protective clothing.

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Observe glove manufacturer's instructions concerning penetrability and breakthrough

ime.

Respiratory protection: In case of inadequate ventilation wear respiratory protection. The filter class must be

suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates)

that may arise when handling the product.

General hygiene considerations:

Avoid contact with skin and eyes. Work place should be equipped with a shower and

an eye rinsing apparatus.

Take off immediately all contaminated clothing and wash it before reuse.

When using do not eat, drink or smoke. Wash hands before breaks and after work.



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9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance: Form: pasty

Color: white

Odor: characteristic
Odor threshold: not determined

pH value:

Melting point/freezing point:
Initial boiling point and boiling range:
Flash point/flash point range:
Evaporation rate:
No data available
Flammability:
not determined
not applicable
No data available
not determined

Explosion limits: LEL (Lower Explosion Limit): not determined

UEL (Upper Explosive Limit): not determined

Vapor pressure:No data availableVapor density:No data availableDensity:at 68 °F: 1.56 g/cm³

Water solubility: insoluble

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

Auto-ignition temperature: not applicable

Thermal decomposition: No decomposition when used properly.

Viscosity, dynamic: not determined

Explosive properties: not determined

Ignition temperature: not determined

10. Stability and reactivity

Reactivity: Corrosive to most metals.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions

Reacts violently with acids.

Conditions to avoid: Protect from heat and direct sunlight.

Keep away from heat sources, sparks and open flames.

Incompatible materials: Acids, metals.

Hazardous decomposition products:

In case of fire may be liberated: nitrogen oxides (NOx), metallic oxides, carbon

monoxide and carbon dioxide.

Thermal decomposition: No decomposition when used properly.



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11. Toxicological information

Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No

toxicological data is available for the product as such.

Acute toxicity (oral): Acute Toxicity - oral - Category 4 = Harmful if swallowed.

ATEmix calculated: 813.6 mg/kg
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation, eye damage/irritation: Skin Corrosion - Category 1B = Causes severe skin burns and eye damage.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Sensitization - skin -

Category 1 = May cause an allergic skin reaction. Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Specific Target Organ Toxicity

(Repeated Exposure) -

Category 2 = May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Lack of data.

Other information: Information about 4,4'-Methylenebis(cyclohexylamine):

LD50, oral, Rat: 380 mg/kg bw LD50, dermal, Rabbit: 2110 mg/kg bw Information about Pentacthylenehexamine:

LD50, oral, Rat: 1600 mg/kg

Symptoms

Caustic effect on skin and mucous membranes. May cause sensitization by skin contact. Bloody lacrimation, Miosis and seizures. Danger of a allergic-anphylactic shock.

Gastrointestinal complaints.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

Volatile organic compounds (VOC):

0% by weight = 0 g/L

General information: Do not allow to penetrate into soil, waterbodies or drains. Do not allow uncontrolled

discharge of product into the environment.

SAFETY DATA SHEET

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13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in

the same way as the substance itself.

14. Transport information

USA: Department of Transportation (DOT)

Identification numbers: UN2735

UN 2735, AMINES, LIQUID, CORROSIVE, N.O.S. Proper shipping name:

(4,4'-Methylenebis(cyclohexylamine))", mixture

DOT hazard class or division: PG: Ш Label codes: 8 Symbols: G

Special provisions: IB3, T7, TP1, TP28

Packaging - Exceptions: 154 Packaging - Non-bulk: 203 Packaging - Bulk: 241 Quantity limitations - Passenger aircraft / rail:

5 L

Quantity limitations - Cargo only: 60 L Vessel stowage - Location: Α Vessel stowage - Other: 52

Sea transport (IMDG)

UN number: UN 2735

UN 2735, AMINES, LIQUID, CORROSIVE, N.O.S. Proper shipping name:

(4,4'-Methylenebis(cyclohexylamine))", mixture

IMDG Class 8, Subrisk -

Packing Group: F-A, S-B Special provisions: 223, 274 Limited quantities: 5 L

P001, LP01 Contaminated packaging - Instructions:

Contaminated packaging - Provisions:

IBC - Instructions: IBC03 IBC - Provisions:

Tank instructions - IMO: Tank instructions - UN: **T7**

TP1, TP28 Tank instructions - Provisions: Stowage and handling: Category A.

Segregation: **SG35**

Properties and observations: Colourless to yellowish liquids or solutions with a pungent odour. Miscible

> with or soluble in water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. React violently with acids. Cause burns to skin, eyes and mucous membranes.

Marine pollutant: yes 18 Segregation group:



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Air transport (IATA)

UN/ID number: UN 2735

Proper shipping name: UN 2735, AMINES, LIQUID, CORROSIVE, N.O.S.

(4,4'-Methylenebis(cyclohexylamine))", mixture

ICAO/IATA: Class 8
PG: III
Hazard: Corrosive

EQ: E1

Passenger Ltd.Qty.: Pack.Instr. Y841 - Max. Net Qty/Pkg. 1 L
Passenger: Pack.Instr. 852 - Max. Net Qty/Pkg. 5 L
Cargo: Pack.Instr. 856 - Max. Net Qty/Pkg. 60 L

Special Provisioning: A3 A803 ERG: 8L

15. Regulatory information

National regulations - U.S. Federal Regulations

4,4'-Methylenebis(cyclohexylamine): TSCA Inventory: listed

TSCA HPVC: not listed

Amines, polyethylenepoly-: TSCA Inventory: listed; UVCB; EPA flags XU

TSCA HPVC: not listed
TSCA Inventory: listed
TSCA HPVC: not listed

National regulations - Great Britain

Hazchem-Code: 2X

16. Other information

Text for labeling: Contains 10 - 20 % 4,4'-Methylenebis(cyclohexylamine), 3 - 5 % Amines,

polyethylenepoly-, 1 - 2.5 % Pentacthylenehexamine. Safety data sheet available on

request.

Hazard rating systems: NFPA Hazard Rating:

3 1

Health: 3 (Serious)
Fire: 1 (Slight)
Reactivity: 1 (Slight)
HMIS Version III Rating:

Pentacthylenehexamine:

Health: 3 (Serious) - Chronic effects

Flammability: 1 (Slight) Physical Hazard: 1 (Slight)

Personal Protection: X = Consult your supervisor

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Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

HEALTH * 3
FLAMMABILITY 1
PHYSICAL HAZARD 1
X