

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

Revision date: Apr/11/2016 Version: 1 Language: en-US Date of print: Apr/18/2016

Plastic-Metal A Hardener

Article number 100002 Page: 1 of 10

1. Product and company identification

Product identifier

Trade name: Plastic-Metal A Hardener

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

General use: Two-component epoxy resins, hardener component.

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

Transport:

Consultank Lutz Harder GmbH

Telephone: +49 (0)178 433 7434 (24h Emergency Contact)

2. Hazards identification

Emergency overview

Appearance: Form: pasty

Color: green

Odor: slightly perceptible

Classification: Skin Corrosion - Category 1B; Sensitization - skin - Category 1;

Aquatic toxicity - chronic - Category 3;

Hazard symbols:





Signal word: Danger

Hazard statements: Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.



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Revision date: Apr/11/2016 Version: 1 Language: en-US Date of print: Apr/18/2016

Plastic-Metal A Hardener

Article number 100002 Page: 2 of 10

Precautionary statements: Keep out of reach of children.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash hands and face thoroughly after handling.

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.

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

Wash contaminated clothing before reuse.

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

Mildly corrosive to most metals see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: polyamine, modified.

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 26950-63-0	Triethylentetramine, propoxylated	13 - 30 %	Acute Toxicity - dermal - Category 4. Skin Corrosion - Category 1B. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 3.
CAS 112-24-3	Triethylentetramine	7 - 13 %	Acute Toxicity - oral - Category 4. Acute Toxicity - dermal - Category 4. Skin Corrosion - Category 1B. Eye Damage - Category 1. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 3.
CAS 90-72-2	2,4,6-tris (Dimethylaminomethyl) phenol	< 3 %	Acute Toxicity - oral - Category 4. Skin Corrosion - Category 1B. Eye Damage - Category 1. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 3.

Additional information:

Product contains silicon dioxide. The maximum workplace exposure limits are, where

necessary, listed in section 8.

Mechanical processing can produce particles and dust.



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Revision date: Apr/11/2016 Version: 1 Language: en-US Date of print: Apr/18/2016

Plastic-Metal A Hardener

Article number 100002 Page: 3 of 10

4. First aid measures

General information: First aider: Pay attention to self-protection! Take off immediately all contaminated

clothing and wash it before reuse.

In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Keep

airway open.

Seek medical aid in case of troubles.

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

immediately with plenty of water and soap.

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

attention.

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.

Seek the attention of an ophthalmologist immediately.

After swallowing: Do not induce vomiting. Aspiration hazard: in case of swallowing or vomiting danger of

penetration into the lungs.

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

Immediately get medical attention.

Most important symptoms/effects, acute and delayed

Causes severe skin burns and eye damage. May cause an allergic skin reaction.

Respiratory complaints, Headache, nausea, vomiting, drowsiness.

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:

> 212 °F (c.c.)

Auto-ignition temperature: not determined

Suitable extinguishing media:

Extinguishing is to be in accordance with the surrounding fire.

Extinguishing media which must not be used for safety reasons:

High power water jet

Specific hazards arising from the chemical

Hazardous vapors may form during fires.

In case of fire may be liberated: Metal oxide smoke, nitrogen oxides (NOx), carbon

monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting

protective clothing.

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 inhale explosion and combustion gases.



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

Revision date: Apr/11/2016 Version: 1 Language: en-US Date of print: Apr/18/2016

Plastic-Metal A Hardener

Article number 100002 Page: 4 of 10

6. Accidental release measures

Personal precautions: Provide adequate ventilation. Use a breathing protection against vapors/aerosol. Do

not breathe vapor or spray.

Wear appropriate protective equipment. Take off immediately all contaminated clothing

and wash it before reuse.

Keep unprotected people away. Avoid contact with skin and eyes. Keep away from

sources of ignition - No smoking.

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: Take up with non-flammable, liquid binding material (e.g. sand/earth/diatomaceous

earth/vermiculit) and perform disposal according to instructions. Thoroughly clean

surrounding area.

Dispose of in accordance with the regulations.

Additional information: Use explosion-proof equipment and non-sparking tools/utensils.

7. Handling and storage

Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid the formation of

aerosol. Do not breathe vapor or spray.

Wear appropriate protective equipment. Avoid contact with skin and eyes. 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.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

Usual measures for fire prevention.

Storage

Requirements for storerooms and containers:

Keep only in the original container. Keep container tightly closed in a cool,

well-ventilated place. Keep container dry.

Protect from heat and direct sunlight, storage temperature: 35.6 °F up to 104 °F.

Handle and open container with care.

Hints on joint storage: Keep away from metals, alkalis, strong oxidizing agents and acids.

Keep away from food, drink and animal feedingstuffs.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Туре	Limit value
14808-60-7	Silicon dioxide	USA: ACGIH: TWA	0.025 mg/m³ (respirable fraction)
		USA: NIOSH: TWA USA: OSHA: TWA	0.05 mg/m³ (respirable fraction) 10 mg/m³/% SiO2+ 2 (respirable Dust)
		USA: OSHA: TWA USA: OSHA: TWA	250 mppcf/%SiO2+5 fine dust 30 mg/m³/% SiO2+ 2 inhalable fraction

Engineering controls

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

See also information in chapter 7, section storage.



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

Revision date: Apr/11/2016 Version: en-US Language: Date of print: Apr/18/2016

Plastic-Metal A Hardener

Article number 100002 Page: 5 of 10

Personal protection equipment (PPE)

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

Z87.1-2010.

Wear suitable protective clothing. Skin protection

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

Glove material: Butyl caoutchouc (butyl rubber), ethylene vinyl alcohol laminate (EVAL)

- Layer thickness: 0.7 mm Breakthrough time: 480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough

time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been

exceeded. Use a breathing protection against vapors/aerosol.

The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If higher concentrations occur: Wear self-contained breathing apparatus.

General hygiene considerations:

Odor:

Flammability:

Avoid contact with skin and eyes.

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

When using do not eat or drink.

Wash hands before breaks and immediately after handling the product. Work place should be equipped with a shower and an eye rinsing apparatus.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance: Form: pasty

Color: green

slightly perceptible

not determined Odor threshold at 50%: 11 - 12 pH value: Melting point/freezing point: not determined Initial boiling point and boiling range: > 392 °F Flash point/flash point range: > 212 °F (c.c.) Evaporation rate: No data available

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

UEL (Upper Explosive Limit): not determined

No data available Vapor pressure: not determined Vapor density: No data available Density: Solubility: not determined at 68 °F: soluble Water solubility: not determined Partition coefficient: n-octanol/water: Auto-ignition temperature: not determined

Thermal decomposition: No decomposition when used properly.

Viscosity, dynamic: not determined not determined Viscosity, kinematic: Ignition temperature: not applicable



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

Revision date: Apr/11/2016 Version: 1 Language: en-US Date of print: Apr/18/2016

Plastic-Metal A Hardener

Article number 100002 Page: 6 of 10

10. Stability and reactivity

Reactivity: Mildly 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.

Incompatible materials: Acids, alkalis, copper, copper alloys and strong oxidizing agents.

Hazardous decomposition products:

Toxic gases/vapours.

Metal oxide smoke, nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

Thermal decomposition: No decomposition when used properly.

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): Based on available data, the classification criteria are not met.

ATEmix (calculated): 8802.9 mg/kg.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

ATEmix (calculated): > 3229.2 mg/kg. 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): Lack of data.

Aspiration hazard: Lack of data.



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

Revision date: Apr/11/2016 Version: 1 Language: en-US Date of print: Apr/18/2016

Plastic-Metal A Hardener

Article number 100002 Page: 7 of 10

Other information: Information about Triethylentetramine, propoxylated:

LD50 Rat, oral: > 2000 mg/kg (OECD 401) LD50, Rabbit, dermal: > 1000 mg/L (OECD 402)

Information about Triethylentetramine: LD50 Rat, oral: 1716.2 mg/L (OECD 401) LD50, Rabbit, dermal: 1465.4 mg/L (OECD 402)

Information about 2,4,6-tris(Dimethylaminomethyl)phenol:

LD50 Rat, oral: 2169 mg/L (OECD 401) LD50, Rabbit, dermal: > 971 mg/L (OECD 402)

For carcinogenic effects:

Information about silicon dioxide:

IARC Rating: Group 1
OSHA Carcinogen: not listed
NTP Rating: not listed

Further hazardous properties cannot be excluded. Handle in accordance with good

industrial hygiene and safety practice.

General remarks

Handle in accordance with good industrial hygiene and safety practice.

12. Ecological information

Ecotoxicity

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

Information about triethylentetramine:

Algae toxicity: ErC50: 20 mg/L/72 h (OECD 201) Algae toxicity: NOECr: <2,5 mg/L/72 h (OECD 201)

Bacterial toxicity: EC50: 800 mg/L/30 min. Bacterial toxicity: EC10: 42,5 mg/L/30 min.

Bacterial toxicity: EC0 Pseudomonas fluorescens: 500 mg/L

Daphnia toxicity: EC50 Daphnia: 31 mg/L/48 h

Daphnia toxicity: EC10 Daphnia: 1,9 mg/L/21 d (OECD 202)

Fish toxicity: LC50: 330 mg/L /96 h

Fish toxicity: LC 0 Leuciscus idus: 200 mg/L /48 h

Mobility in soil

No data available

Persistence and degradability

Further details: Biodegradation:

Information about triethylentetramine: 0% /162 d (OECD 301D). Product is not

biodegradable.

Information about 2,4,6-tris(Dimethylaminomethyl)phenol: 4% /28 d (OECD 301D).

Product is biodegradable with difficulty.

Additional ecological information

Volatile organic compounds (VOC):

0 % by weight = 0 g/L

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

uncontrolled discharge of product into the environment.

SAFETY DATA SHEET

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

Revision date: Apr/11/2016 Version: en-US Language: Date of print:

Plastic-Metal A Hardener

Article number 100002 Page: 8 of 10

13. Disposal considerations

Product

Recommendation: Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging

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

the same way as the substance itself. Non-contaminated packages may be recycled.

14. Transport information

USA: Department of Transportation (DOT)

Identification numbers: UN2735

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

(Triethylentetramine, propoxylated)

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

Special provisions: B2, IB2, T11, TP1, TP27

Packaging - Exceptions: 154 Packaging - Non-bulk: 202 Packaging - Bulk: 242 Quantity limitations - Passenger aircraft / rail:

1 L

Quantity limitations - Cargo only: 30 L Vessel stowage - Location: Α Vessel stowage - Other: 52

Sea transport (IMDG)

UN number:

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

(Triethylentetramine, propoxylated)

Class 8, Subrisk -**IMDG**

Packing Group: F-A, S-B Special provisions: 274 Limited quantities: 1 L E2 Contaminated packaging - Instructions: P001 Contaminated packaging - Provisions:

IBC - Instructions: IBC02 IBC - Provisions:

Tank instructions - IMO:

Tank instructions - UN: T11

TP1, TP27 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: no Segregation group: none





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Revision date: Apr/11/2016 Version: 1 Language: en-US Date of print: Apr/18/2016

Plastic-Metal A Hardener

Article number 100002 Page: 9 of 10

Air transport (IATA)

UN/ID number: UN 2735

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

(Triethylentetramine, propoxylated)

ICAO/IATA: Class 8 PG: II

Hazard: Corrosive

EQ: E2

Passenger Ltd.Qty.: Pack.Instr. Y840 - Max. Net Qty/Pkg. 0.5 L
Passenger: Pack.Instr. 851 - Max. Net Qty/Pkg. 1 L
Cargo: Pack.Instr. 855 - Max. Net Qty/Pkg. 30 L

Special Provisioning: A3 A803 ERG: 8L

15. Regulatory information

National regulations - U.S. Federal Regulations

Triethylentetramine: TSCA Inventory: listed TSCA HPVC: not listed

2,4,6-tris(Dimethylaminomethyl)phenol: TSCA Inventory: listed

TSCA HPVC: not listed

Silicon dioxide: TSCA Inventory: listed

TSCA HPVC: not listed Carcinogen Status: IARC Rating: Group 1 OSHA Carcinogen: not listed

NTP Rating: listed NIOSH Recommendations:

Occupational Health Guideline: 0553

National regulations - U.S. State Regulations

Triethylentetramine: California Proposition 65 code: -

Massachusetts Haz. Substance codes:

6

Pennsylvania Haz. Substance code: Silicon dioxide: California Proposition 65: cancer

Rhode Island HSL: listed

National regulations - Great Britain

Hazchem-Code: 2X

16. Other information

Text for labeling: Contains 13 - 30 % Triethylentetramine, propoxylated, 7 - 13 % Triethylentetramine, <

3 % 2,4,6-tris(Dimethylaminomethyl)phenol. Safety data sheet available on request.

Hazard rating systems: NFPA Hazard Rating:

3 0

Health: 3 (Serious)
Fire: 1 (Slight)
Reactivity: 0 (Minimal)
HMIS Version III Rating:

Health: 3 (Serious)
Flammability: 1 (Slight)
Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor



W E I C O N

SAFETY DATA SHEET

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Revision date: Apr/11/2016 Version: 1 Language: en-US Date of print: Apr/18/2016

Plastic-Metal A Hardener

Article number 100002 Page: 10 of 10

Date of first version: Apr/11/2016

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.