

1. Product and company identification

Product identifier

Trade name: Plastic-Metal A Resin

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

General use: Two-component epoxy resins, resin 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

Emergency phone number

EMERGENCY CONTACT – Canada (24h): Tel: ++1 866 928 0789 (Toll free)

Transport:

TRANSPORT EMERGENCY CONTACT - Canada (24h): Tel: ++1 866 928 0789 (Toll free)

2. Hazards identification

Emergency overview

Appearance: Physical state at 20 °C and 101.3 kPa: solid
Form: pasty
Color: black
Odor: slightly perceptible
Classification: Skin Irritation 2; Eye Irritation 2A; Sensitization - skin 1; Aquatic toxicity - chronic 3;
Hazard symbols:



Warning

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful to aquatic life with long lasting effects.

Signal word:

Hazard statements:



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Precautionary statements: Keep out of reach of children.
Do not breathe vapors/dust/ aerosols.
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.
IF ON SKIN: Wash with plenty of water/soap.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see 'First aid' on this label).
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
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 characterisation: Formulated bisphenol A-epoxy resin

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 25068-38-6	Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=700)	7 - 13 %	Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1. Aquatic toxicity - chronic 2.
CAS 16096-31-4	1,6-bis(2,3-Epoxypropoxy)hexane	3 - 7 %	Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1. Aquatic toxicity - chronic 3.
CAS 9003-36-5	Bisphenol F Epoxy Resin	3 - 7 %	Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1. Aquatic toxicity - chronic 2.

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, wash immediately with soap and plenty of water. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.



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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. Consult an ophthalmologist.

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 and effects, both acute and delayed

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Nausea, vomiting.

Information to physician

Symptoms of poisoning can only emerge after several hours; medical supervision is therefore essential for at least 48 hours.
Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

> 200 °C (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, halogenated hydrocarbons, 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.

Do not allow fire water to penetrate into surface or ground water.

Do not inhale explosion and combustion gases.

6. Accidental release measures

Personal precautions: Provide adequate ventilation, and local exhaust as needed. Avoid contact with skin, eyes, and clothing. Do not breathe fume/gas/mist/vapors/spray. Wear respiratory protection when in the presence of vapor, dust, and aerosols.
Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains.

Methods for clean-up:

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance.
Dispose of in accordance with the regulations.



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7. Handling and storage

Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid the formation of aerosol/vapors.
Avoid contact with skin and eyes.
Do not breathe fume/gas/mist/vapors/spray.
Wear appropriate protective equipment.
When using do not eat, drink or smoke.
Take off immediately all contaminated clothing and wash it before reuse.

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 container tightly closed in a cool, well-ventilated place. Keep container dry.
Protect from heat and direct sunlight. storage temperature: 2 °C up to 40 °C. Handle and open container with care.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.
Keep away from strong acids, strong bases and oxidizers.

8. Exposure controls / personal protection

Engineering controls

Provide adequate ventilation, and local exhaust as needed.
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.

Glove material: Nitrile rubber, fluoro rubber.

Layer thickness: 0.35 - 0.4 mm.

Breakthrough time: > 480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: When vapors form, use respiratory protection.

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:

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.



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9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: solid
Odor:	slightly perceptible
Odor threshold:	not determined
pH value:	at 50%: approx. 7
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	not determined
Flash point/flash point range:	> 200 °C (c.c.)
Evaporation rate:	No data available
Flammability:	not determined
Explosion limits:	LEL (Lower Explosion Limit): not determined UEL (Upper Explosive Limit): not determined
Vapor pressure:	at 20 °C: <= 0.2 Pa
Vapor density:	not determined
Density:	at 20 °C: 3.28 g/mL
Water solubility:	practically insoluble
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	not determined
Thermal decomposition:	> 200 °C
Viscosity, dynamic:	at 50 °C: 190 - 200 mPa*s
Viscosity, kinematic:	not determined
Ignition temperature:	not applicable

10. Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Reactions with acids, alkalis and oxidizing agents
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Protect against direct sunlight. Protect from moisture contamination.
Incompatible materials:	Strong oxidizing agents, strong acids, strong alkalis.
Hazardous decomposition products:	Toxic gases/vapours. Metal oxide smoke, halogenated hydrocarbons, carbon monoxide and carbon dioxide.
Thermal decomposition:	> 200 °C



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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): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irritation 2 = Causes skin irritation.

Information about Reaction product with Bisphenol A-epichlorhydrin epoxy resin (molecular weight = 700): Rabbit, skin: irritant (OECD 404).

Eye damage/irritation: Eye Irritation 2A = Causes serious eye irritation.

Information about Reaction product with Bisphenol A-epichlorhydrin epoxy resin (molecular weight = 700): Rabbit, eye: irritant (OECD 405).

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Sensitization - skin 1 = May cause an allergic skin reaction.

Information about Reaction product with Bisphenol A-epichlorhydrin epoxy resin (molecular weight = 700): Substance in the local lymph node assay (Mouse): sensitising (OECD 429).

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.

Other information: Information about Reaction product with Bisphenol A-epichlorhydrin epoxy resin (molecular weight = 700):

LD50, oral, Rat (OECD 401): > 2000 mg/kg

LD50, dermal, Rabbit (OECD 402): > 2000 mg/kg

LC 0, inhalative, Rat (OECD 420): 0,00001 ppm

Further hazardous properties cannot be excluded.

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 Reaction product with Bisphenol A-epichlorhydrin epoxy resin (molecular weight = 700): Algae toxicity:

EC50 Desmodesmus subspicatus (green algae): 9.4 mg/L/72h (EPA CFR).

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 1.7 mg/L/48h (OECD 202).

Fish toxicity:

LC50 Oncorhynchus mykiss: 1.2 mg/L/96h (OECD 203).

Bacterial toxicity:

IC50 Bacteria, Activated sludge: >100 mg/L/3 h.

Mobility in soil

No data available



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Persistence and degradability

Further details: Information about Reaction product with Bisphenol A-epichlorhydrin epoxy resin (molecular weight = 700):
Biodegradation: 5%/28d (OECD 301 F).
Information about 1,6-bis(2,3-Epoxypropoxy)hexane: 47% /28d (OECD 301 D)
Product is not readily biodegradable.

Additional ecological information

Volatile organic compounds (VOC): 0 % by weight
General information: Do not allow to enter into ground-water, surface water or drains.

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)

Proper shipping name: Not restricted

Canada: Transportation of Dangerous Goods (TDG)

Shipping name: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: no

Air transport (IATA)

Proper shipping name: Not restricted

Further information

No dangerous good in sense of these transport regulations.

15. Regulatory information

National regulations - Canada

No data available

National regulations - U.S. Federal Regulations

Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin
(number average molecular weight <=700):

TSCA Inventory: listed; EPA flags XU
TSCA HPVC: not listed

1,6-bis(2,3-Epoxypropoxy)hexane:

TSCA Inventory: listed; EPA flags E; P; S
TSCA HPVC: not listed

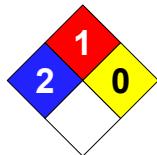
Bisphenol F Epoxy Resin:

TSCA: listed - Flags: XU

16. Other information

Text for labeling: Contains 7 - 13 % Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=700), 3 - 7 % 1,6-bis(2,3-Epoxypropoxy)hexane, 3 - 7 % Bisphenol F Epoxy Resin. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)
Fire: 1 (Slight)
Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate)
Flammability: 1 (Slight)
Physical Hazard: 0 (Minimal)
Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

Reason of change:

Changes in section 1: General revision

Date of first version:

7/Apr/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.