



# SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017

Version: 3

Language: en-CA,US

Date of print: 10/Jan/2017

## Plastic-Metal SF Resin

Material number 102501

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### 1. Product and company identification

#### Product identifier

Trade name: Plastic-Metal SF 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: Form: pasty  
Color: brown  
Odor: characteristic  
Classification: Skin Irritation 2; Eye Irritation 2A; Sensitization - skin 1; Aquatic toxicity - chronic 2;  
Hazard symbols:



Signal word:

**Warning**

Hazard statements:

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



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Precautionary statements: Keep out of reach of children.  
Avoid breathing 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 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 immediately all contaminated clothing and wash it before reuse.  
Collect spillage.  
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)	10 - 25 %	Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1. Aquatic toxicity - chronic 2.
CAS 28064-14-4	Bisphenol-F-epichlorhydrine resin	10 - 25 %	Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1. Aquatic toxicity - chronic 2.
CAS 2425-79-8	1,4-bis(2,3-Epoxypropoxy) butane	1 - 10 %	Acute Toxicity 4 (dermal). Acute Toxicity 4 (inhalative). Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1. Aquatic toxicity - chronic 3.

## 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.



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- 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.
- 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.

### 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:

> 100 °C

Auto-ignition temperature: No data available

Suitable extinguishing media::

Water fog, foam, extinguishing powder, carbon dioxide.

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: hydrogen chloride, 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.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## 6. Accidental release measures

Personal precautions:

Provide adequate ventilation, and local exhaust as needed. Avoid contact with skin, eyes, and clothing. Do not breathe dust/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. If necessary notify appropriate authorities.



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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 dust/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.  
Do not store together with acids/alkalies and oxidation agents.

## 8. Exposure controls / personal protection

### Exposure guidelines

Occupational exposure limit values:

Type	Limit value
Canada, Alberta: OEL 15 min	10 mg/m <sup>3</sup> Oil mist mineral
Canada, Alberta: OEL 8 hour	5 mg/m <sup>3</sup> Oil mist mineral
Canada, BC: OEL TWA	0.2 mg/m <sup>3</sup> Oil mist mineral
Canada, BC: OEL TWA	1 mg/m <sup>3</sup> Oil mist mineral, (mineral, severely refined)
Canada, Ontario: OEL TWA	5 mg/m <sup>3</sup> Oil mist mineral
Canada, Québec: VECD	10 mg/m <sup>3</sup> Oil mist mineral
Canada, Québec: VEMP	5 mg/m <sup>3</sup> Oil mist mineral
USA: NIOSH: STEL	10 mg/m <sup>3</sup> Oil mist mineral
USA: NIOSH: TWA	5 mg/m <sup>3</sup> Oil mist mineral
USA: OSHA: TWA	5 mg/m <sup>3</sup> Oil mist mineral

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



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

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance:	Form: pasty Color: brown
Odor:	characteristic
Odor threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	> 100 °C
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	2.3 g/cm <sup>3</sup>
Water solubility:	practically insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Additional information:	No data available

## 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:	Oxidizing agents, acids, alkalis.
Hazardous decomposition products:	Toxic gases/vapours. hydrogen chloride, carbon monoxide and carbon dioxide.
Thermal decomposition:	No data available



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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.  
ATEmix (calculated): > 5000 mg/kg.  
Acute toxicity (inhalative): Lack of data.  
ATEmix (calculated): > 20 mg/L. (vapors)  
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: Toxic 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.



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### Mobility in soil

No data available

### Persistence and degradability

Further details: Information about Reaction product with Bisphenol A-epichlorhydrin epoxy resin (molecular weight = 700):  
Biodegradation: 5%/28d (OECD 301 F).

### 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)

Identification number: UN3082  
Proper shipping name: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=700))  
Hazard class or Division: 9  
Packing Group: III  
Labels: 9  
Symbols: G  
Special provisions: 8, 146, 173, 335, IB3, T4, TP1, TP29  
Packaging – Exceptions: 155  
Packaging – Non-bulk: 203  
Packaging – Bulk: 241  
Quantity limitations – Passenger aircraft / rail: No limit  
Quantity limitations – Cargo only: No limit  
Vessel stowage – Location: A



### Canada: Transportation of Dangerous Goods (TDG)

UN Number: UN3082  
Shipping name: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=700))  
TDG class: 9  
Packing group: III  
Special provisions: 16, 99  
Explosive limit and limited quantity index: 5 L



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### Sea transport (IMDG)

UN number: UN 3082  
Proper shipping name: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=700))  
Class or division, Subsidiary risk: Class 9, Subrisk-  
Packing Group: III  
EmS: F-A, S-F  
Special provisions: 274, 335, 969  
Limited quantities: 5 L  
Excepted quantities: E1  
Contaminated packaging - Instructions: P001, LP01  
Contaminated packaging - Provisions: PP1  
IBC - Instructions: IBC03  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T4  
Tank instructions - Provisions: TP2, TP29  
Stowage and handling: Category A.  
Properties and observations: -  
Marine pollutant: yes  
Segregation group: none

### Air transport (IATA)

UN/ID number: UN 3082  
Proper shipping name: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=700))  
Class or division, Subsidiary risk: Class 9  
Packing Group: III  
Hazard label: Miscellaneous  
Excepted Quantity Code: E1  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y964 - Max. Net Qty/Pkg. 30 kg G  
Passenger and Cargo Aircraft: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L  
Cargo Aircraft only: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L  
Special provisions: A97 A158 A197  
Emergency Response Guide-Code (ERG): 9L

## 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):

Bisphenol-F-epichlorhydrine resin:

1,4-bis(2,3-Epoxypropoxy)butane:

TSCA Inventory: listed; EPA flags XU

TSCA HPVC: not listed

TSCA Inventory: listed; UVCB; EPA flags XU

TSCA HPVC: not listed

TSCA Inventory: listed; EPA flags T

TSCA HPVC: not listed

TSCA: listed





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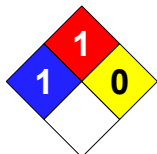
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### 16. Other information

**Text for labeling:** Contains 10 - 25 % Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq 700$ ), 10 - 25 % Bisphenol-F-epichlorhydrine resin, 1 - 10 % 1,4-bis(2,3-Epoxypropoxy)butane. Safety data sheet available on request.

**Hazard rating systems:**



**NFPA Hazard Rating:**

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

**HMIS Version III Rating:**

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

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
	X

**Reason of change:** ADR/RID 2017

**Date of first version:** 20/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.