



# SAFETY DATA SHEET

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

Revision date: Aug/5/2016

Version: 2

Language: en-US

Date of print: Aug/11/2016

## Epoxy Resin Putty Resin

Material number 105001

Page: 1 of 8

### 1. Product and company identification

#### Product identifier

Trade name: Epoxy Resin Putty Resin

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

Identified uses: Two-component epoxy resins, resin component

#### 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 – USA (24h): Tel: ++1 202 464 2554**

**Transport:**

**TRANSPORT EMERGENCY CONTACT - USA (24h): Tel: ++1 202 464 2554**

### 2. Hazards identification

#### Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: liquid

Form: pasty

Color: yellow

Odor: slightly perceptible

Classification: Skin Irritation - Category 2; Eye Irritation - Category 2A; Sensitization - skin - Category 1; Aquatic toxicity - chronic - Category 3;

Hazard symbols:



Signal word:

**Warning**

Hazard statements:

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful 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 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

May be harmful if swallowed. Depending on handling and use (e.g. grinding, drying) formation of air-borne, respirable crystalline silicon dioxide is possible.  
see section 11: Toxicological information

## 3. Composition / Information on ingredients

Chemical characterization: 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 - 30 %	Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 9003-36-5	Bisphenol F Epoxy Resin	< 10 %	Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 2.

## 4. First aid measures

General information: First aider: Pay attention to self-protection! Take off contaminated clothing and wash it before reuse.

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical treatment in case of troubles.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. Seek medical attention if irritation persists.

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.



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After swallowing: Do not induce vomiting. Aspiration hazard: in case of swallowing or vomiting danger of penetration into the lungs. Rinse mouth with water. Let water be swallowed in little sips. Never give anything by mouth to an unconscious person. If swallowed, seek medical advice immediately and show this container or label.

### Most important symptoms/effects, acute and delayed

Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Abdominal pain. Drowsiness.

### 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:

> 302 °F

Auto-ignition temperature: No data available

Suitable extinguishing media:

Water fog, carbon dioxide, foam, dry chemical powder. Co-ordinate fire-fighting measures to the fire surroundings.

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, aromatic hydrocarbons, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Do not inhale explosion and combustion gases.

## 6. Accidental release measures

Personal precautions: Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with the substance.

Wear appropriate protective equipment.

Wear respiratory protection when in the presence of vapor, dust, and aerosols. Keep unprotected people away.

Environmental precautions:

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

In case of release, notify competent authorities.

Methods for clean-up:

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

## 7. Handling and storage

### Handling

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



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Precautions against fire and explosion:

Usual measures for fire prevention.  
Keep away from sources of ignition - No smoking.

### 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. Handle and open container with care. Keep only in original packaging. storage temperature: 41 °F up to 104 °F. Store containers in upright position.

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: Ethylene vinyl alcohol laminate (EVAL), Butyl caoutchouc (butyl rubber). 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. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.
General hygiene considerations:	Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. When using do not eat, drink or smoke. Wash hands before breaks and after work.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: liquid Form: pasty Color: yellow
Odor:	slightly perceptible
Odor threshold:	not determined
pH value:	not determined
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	not determined
Flash point/flash point range:	> 302 °F
Evaporation rate:	No data available



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Flammability:	not determined
Explosion limits:	LEL (Lower Explosion Limit): not determined UEL (Upper Explosive Limit): not determined
Vapor pressure:	No data available
Vapor density:	No data available
Density:	No data available
Water solubility:	at 68 °F: insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	> 392 °F
Viscosity, dynamic:	not determined
Viscosity, kinematic:	not determined

### 10. Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Reacts with strong oxidizing agents, strong bases, and strong acids.
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 bases.
Hazardous decomposition products:	Hazardous vapors may form during fires. In case of fire may be liberated: Metal oxide smoke, aromatic hydrocarbons, carbon monoxide and carbon dioxide.
Thermal decomposition:	> 392 °F



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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): Based on available data, the classification criteria are not met.  
ATEmix (calculated): 2000 mg/kg < ATE < 5000 mg/kg  
Acute toxicity (dermal): Based on available data, the classification criteria are not met.  
ATEmix (calculated): 2000 mg/kg < ATE < 5000 mg/kg  
Acute toxicity (inhalative): Based on available data, the classification criteria are not met.  
Skin corrosion/irritation: Skin Irritation - Category 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 - Category 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 - Category 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: 0,000008 ppm (Exposure time:5h)  
Information about Bisphenol F Epoxy Resin:  
LD50, oral, Rat (OECD 401): > 5000 mg/kg  
LD50, dermal, Rabbit (OECD 402): > 2000 mg/kg

#### Symptoms

In case of ingestion:  
Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.  
After contact with skin: Reddening  
After eye contact: Causes tears, redness, pain.



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## 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.  
Information about Bisphenol F Epoxy Resin:  
Algae toxicity:  
EC50 *Desmodesmus subspicatus* (green algae): > 1.8 mg/L/72h (OECD 201)  
Daphnia toxicity:  
EC50 *Daphnia magna* (Big water flea): > 1000 mg/L/48h (OECD 202).  
Fish toxicity:  
EC50 *Oncorhynchus mykiss*: > 1000 mg/L/96h (OECD 203).  
Bacterial toxicity:  
IC50 Bacteria, Activated sludge: > 100 mg/L/3 h.

### 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).  
Product is biodegradable with difficulty.  
Information about Bisphenol F Epoxy Resin:  
Biodegradation: 0%/28d (OECD 301 D).  
Product is not 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



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### 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 - 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

Bisphenol F Epoxy Resin: TSCA: listed - Flags: XU

### National regulations - Great Britain

Hazchem-Code: -

## 16. Other information

Text for labeling: Contains 10 - 30 % Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=700), < 10 % 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
	X

Reason of change: Changes in section 1: General revision

Date of first version: Oct/20/2015

### 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.