



SAFETY DATA SHEET

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

Revision date: Jan/2/2017

Version: 2

Language: en-US

Date of print: Jan/10/2017

WEICON TI Resin

Material number 104301

Page: 1 of 9

1. Product and company identification

Product identifier

Trade name: WEICON TI 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 – 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: solid
Form: pasty
Color: gray
Odor: slightly perceptible
Classification: Skin Irritation - Category 2; Eye Irritation - Category 2A; Sensitization - skin - Category 1; Aquatic toxicity - chronic - Category 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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WEICON TI Resin

Material number 104301

Page: 2 of 9

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.
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 characterization: Epoxy resin. Contains mineral fillers.

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 25068-38-6	Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=700)	25 - 50 %	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	1 - 25 %	Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1.

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.

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.



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Revision date: Jan/2/2017

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Language: en-US

Date of print: Jan/10/2017

WEICON TI Resin

Material number 104301

Page: 3 of 9

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 skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Vomiting, respiratory complaints, mucous membrane irritation. Irritating to respiratory system.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

> 212 °F (c.c.)

Auto-ignition temperature: not determined

Suitable extinguishing media:

Water fog, dry chemical powder, alcohol resistant foam, 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: Metal oxide smoke, Nitrogen oxides (NO_x), 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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Revision date: Jan/2/2017
Version: 2
Language: en-US
Date of print: Jan/10/2017

WEICON TI Resin

Material number 104301

Page: 4 of 9

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: 35.6 °F up to 104 °F. Handle and open container with care. Store only in original container.

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
USA: NIOSH: STEL	10 mg/m ³ Oil mist mineral
USA: NIOSH: TWA	5 mg/m ³ Oil mist mineral
USA: OSHA: TWA	5 mg/m ³ 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: Natural latex. Layer thickness: >=0.6 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. 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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WEICON TI Resin

Material number 104301

Page: 5 of 9

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: solid Form: pasty Color: gray
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:	> 212 °F (c.c.)
Evaporation rate:	not determined
Flammability:	not determined
Explosion limits:	LEL (Lower Explosion Limit): not determined UEL (Upper Explosive Limit): not determined
Vapor pressure:	not determined
Vapor density:	No data available
Density:	at 68 °F: approx. 1.6 g/cm ³
Solubility:	not determined
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	not determined
Thermal decomposition:	> 392 °F
Viscosity, dynamic:	at 77 °F: 1000000 mPa*s
Ignition temperature:	not determined

10. Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Reactions with acids, alkalies and strong oxidation 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. Metal oxide smoke, nitrogen oxides (NO _x), carbon monoxide and carbon dioxide.
Thermal decomposition:	> 392 °F



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WEICON TI Resin

Material number 104301

Revision date: Jan/2/2017

Version: 2

Language: en-US

Date of print: Jan/10/2017

Page: 6 of 9

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 - 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.
Information about Reaction product with Bisphenol A-epichlorhydrin epoxy resin (molecular weight = 700): Reproduction toxicity:
NOAEL (P, F1) Rat, oral (male): 50 mg/kg bw/d (OECD 416).
NOAEL (P, F1) Rat, oral (female): 540 mg/kg bw/d (OECD 416).

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.
Information about Reaction product with Bisphenol A-epichlorhydrin epoxy resin (molecular weight = 700): NOAEL guinea pig, oral: 50 mg/kg/90d bw/d (OECD 408)

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): 11400 mg/kg
LD50, dermal, Rabbit (OECD 402): 20 mL/kg

General remarks

Handle in accordance with good industrial hygiene and safety practice.



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Revision date: Jan/2/2017

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Date of print: Jan/10/2017

WEICON TI Resin

Material number 104301

Page: 7 of 9

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.

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: 0% /28d.
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.



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Date of print: Jan/10/2017

WEICON TI Resin

Material number 104301

Page: 8 of 9

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); Bisphenol F Epoxy Resin.), mixture
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



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); Bisphenol F Epoxy Resin.), mixture
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



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WEICON TI Resin

Material number 104301

Page: 9 of 9

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); Bisphenol F Epoxy Resin.), mixture
 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 - 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

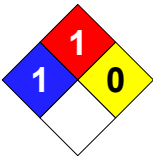
National regulations - Great Britain

Hazchem-Code: •3Z

16. Other information

Text for labeling: Contains 25 - 50 % Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=700), 1 - 25 % Bisphenol F Epoxy Resin. 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: Changes in section 3: Composition / Information on ingredients
 Changes in section 14: Transport information, ADR/RID 2017
 General revision

Date of first version: Dec/1/2016

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.