

SAFETY DATA SHEET



WEICON F Epoxy Resin

Section 1. Identification

GHS product identifier : WEICON F Epoxy Resin
Product code : 101501
Other means of identification : Not available.
Color : Metallic. Silver.
Product type : Liquid.

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

Identified uses

Epoxy resins

Uses advised against

Not applicable.

Supplier's details : WEICON GmbH & Co. KG
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48157 Münster, Germany
phone:+49 251 93220,
email: info@weicon.de,
URL: www.weicon.de

e-mail address of person responsible for this SDS : msds@weicon.de

Emergency telephone number (with hours of operation) : +1 202 464 2554
TRANSPORT (24 Hours/Day): +1 202 464 2554

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention : P260 - Do not breathe vapor.
P280 - Wear protective gloves. Wear eye or face protection.

Response : Not applicable.

Storage : Not applicable.

Section 2. Hazards identification

Disposal	: P501 - Dispose of waste according to applicable legislation.
Hazards not otherwise classified	: None known.
Hazards identified when used	: No known significant effects or critical hazards.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

Ingredient name	Synonyms	%	Identifiers
bis-[4-(2,3-epoxypropoxy)phenyl]propane	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-; Bisphenol A diglycidyl ether; Bisphenol A, diglycidyl ether; Bis-[4-(2,3-epoxypropoxy)phenyl]propane; 2,2-bis[4-(2,3-epoxypropoxy)phenyl]propane; Propane, 2,2-bis(p-(2,3-epoxypropoxy)phenyl)-; diglycidyl ether of bisphenol-A; 2,2-bis(4-hydroxyphenyl)propane bis(2,3-epoxypropyl) ether; Araldite; DIPHENYLOLPROPANE DIGLYCIDYL ETHER	≥15 - ≤40	CAS: 1675-54-3
crystalline silica, respirable powder	alpha-quartz; Silica, crystalline (quartz); Silica, Crystalline Quartz; SILICA, CRYSTALLINE, QUARTZ; Silica-Crystalline, Quartz; Silica - Crystalline Quartz; Silica-Crystalline : Quartz; Silica, crystalline - quartz	≥15 - ≤40	CAS: 14808-60-7
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol; Formaldehyde, polymer with (chloromethyl)oxirane and phenol; Phenol, formaldehyde, (chloromethyl)oxirane polymer; epichlorohydrin-phenolformaldehyde resin; Phenolic epoxy resin F-44; Polymer of 2-(chloromethyl)oxirane / formaldehyde / phenol; Glycidyl ether modification products with epichlorohydrin or 2-methylepichlorohydrin of {polycondensation products of [(polycondensation products of phenol / formaldehyde) or alkyl (C1-9)phenol] / formaldehyde}; Formaldehyde polymer with (chloromethyl)oxirane and phenol; POLYMER, FORMALDEHYDE WITH (CHLOROMETHYL)OXIRANE AND PHENOL;	≥10 - ≤30	CAS: 9003-36-5

Section 3. Composition/information on ingredients

Aluminium powder (stabilized)	Epichlorohydrin-bisphenol F resin aluminium powder (stabilised)	≥7 - ≤13	CAS: 7429-90-5
2,2' -oxybisethanol	diethylene glycol; 2,2'-oxydiethanol; Ethanol, 2,2'-oxybis-; 2,2'-Oxybis[ethanol; 2,2'-Oxybis[ethanol]; diethylene glycol propylene glycol triethanolamine titanate complexes (CAS RN 68784- 48-5) dissolved in diethylene glycol (CAS RN 111-46-6); digol; DEG; 3-Oxypentane-1,5-diol; Diglycol	≥3 - ≤7	CAS: 111-46-6
1,6-Hexanediol, reaction products with epichlorohydrin	1,6-bis(2,3-epoxypropoxy)hexane; 1,6-Hexanediol/epichlorohydrin derieved liquid epoxy resin; Reaction products of hexane-1,6-diol with 2-(chloromethyl) oxirane	≥1 - ≤5	CAS: 933999-84-9
decamethylcyclopentasiloxane	Cyclopentasiloxane, 2,2,4,4,6,6,8,8,10,10-decamethyl-; Cyclopentasiloxane, decamethyl-; D5; 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane; CYCLOPENTASILOXANE; decamethylcyclopentasiloxane {D5}; decamethyl-1,3,5,7,9,2,4,6,8,10-pentaoxapentasiloxane; Belsil CM 040; 2,2,4,4,6,6-Hexaethylcyclotrisiloxane; Cyclic polyalkyl (C1-20) siloxane; Cyclopentasiloxane, decamethyl	≤0.1	CAS: 541-02-6
octamethylcyclotetrasiloxane	D4; Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-; Cyclotetrasiloxane, octamethyl-; siloxanes and silicones, di-Me, reaction products with chlorotrimethylsilane, iso-Pr alc., silica and sodium silicate, mixture with octamethylcyclotetrasiloxane and dodecamethylcyclohexasiloxane; 2,2,4,4,6,6,8,8-Octamethylcyclotetrasiloxane; OCTAMETHYLTETRASILOXANE; CYCLOMETHICONE; CYCLOTETRASILOXANE; Cyclohexasiloxane, dodecamethyl-; Cyclic polyalkyl (C1-20) siloxane; 2,2,4,4,6,6,8,8-Octamethyl-1,3,5,7,2,4,6,8-tetraoxatetrasiloxane	≤0.1	CAS: 556-67-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Section 7. Handling and storage

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
bis-[4-(2,3-epoxipropoxy)phenyl]propane crystalline silica, respirable powder	None. NIOSH REL (United States, 10/2020) [SILICA, CRYSTALLINE] NIA. TWA 10 hours: 0.05 mg/m ³ . Form: respirable dust. CAL OSHA PEL (United States, 1/2025) TWA 8 hours: 0.05 mg/m ³ . OSHA PEL Z3 (United States, 6/2016) TWA 8 hours: 250 / (%SiO ₂ +5) mppcf. Form: Respirable. TWA 8 hours: 10 / (%SiO ₂ +2) mg/m ³ . Form: Respirable. OSHA PEL (United States, 5/2018) [Silica, crystalline] TWA 8 hours: 50 µg/m ³ . Form: Respirable dust. OSHA PEL 1989 (United States, 3/1989) TWA 8 hours: 0.1 mg/m ³ (as quartz). Form: Respirable dust. ACGIH TLV (United States, 1/2025) [Silica, crystalline] A2. TWA 8 hours: 0.025 mg/m ³ . Form: Respirable fraction.
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol Aluminium powder (stabilized)	None. NIOSH REL (United States, 10/2020) TWA 10 hours: 10 mg/m ³ . Form: Total. TWA 10 hours: 5 mg/m ³ . Form: Respirable fraction. CAL OSHA PEL (United States, 1/2025) TWA 8 hours: 5 mg/m ³ . Form: powder. OSHA PEL (United States, 5/2018) TWA 8 hours: 15 mg/m ³ (as Al). Form: Total dust. TWA 8 hours: 5 mg/m ³ (as Al). Form: Respirable fraction. OSHA PEL 1989 (United States, 3/1989) TWA 8 hours: 15 mg/m ³ (as Al). Form: Dust. TWA 8 hours: 5 mg/m ³ (as Al). Form: Respirable fraction. TWA 8 hours: 5 mg/m ³ (as Al). Form:

Section 8. Exposure controls/personal protection

2,2' -oxybisethanol	Pyrophoric. TWA 8 hours: 5 mg/m ³ (as Al). Form: Welding fume.
1,6-Hexanediol, reaction products with epichlorohydrin decamethylcyclopentasiloxane	ACGIH TLV (United States, 1/2025) [Aluminum, metal and insoluble compounds] A4. TWA 8 hours: 1 mg/m ³ . Form: Respirable fraction.
octamethylcyclotetrasiloxane	OARS WEEL (United States, 9/2024) TWA 8 hours: 10 mg/m ³ .
	None. OARS WEEL (United States, 9/2024) TWA 8 hours: 10 ppm.
	OARS WEEL (United States, 9/2024) TWA 8 hours: 10 ppm.

Biological exposure indices

No exposure indices known.

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended : 1 - 4 hours (breakthrough time): Protective gloves made of nitrile rubber (material thickness of 0,4 mm); EN 374-5 Cat. III ; 4 - 8 hours (breakthrough time): Protective gloves made of Viton®/ butyl rubber (material thickness of 0,7 mm); EN388 Cat.II / EN374 Cat.III / EN374-2
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended : organic vapor (Type AX) and particulate filter

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	: Liquid.
Color	: Metallic. Silver.
Odor	: Characteristic.
Odor threshold	: Not available.
pH	: Not applicable.
Melting point/freezing point	: Not available.
Boiling point or initial boiling point and boiling range	: Not available.
Flash point	: Closed cup: >100°C (>212°F)
Evaporation rate	: Not available.
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Not available.
Vapor pressure	:

Ingredient name	Vapor Pressure at 20 °C			Vapor pressure at 50 °C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
octamethylcyclotetrasiloxane	0.99008	0.13	EU A.4			
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	0.62	0.083				
decamethylcyclopentasiloxane	0.25	0.033				
2,2'-oxybisethanol	0.006	0.0008				

Relative vapor density	: Not available.
Relative density	: Not available.
Density	: 1.4 g/cm ³ [20°C (68°F)]
Solubility in water	: Not available.
Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	:

Ingredient name	°C	°F	Method
2,2'-oxybisethanol	229	444.2	DIN EN 14522-S
decamethylcyclopentasiloxane	372	701.6	ASTM E 659-78
octamethylcyclotetrasiloxane	384 to 387	723.2 to 728.6	ASTM E 659

Decomposition temperature	: Not available.
Viscosity	: Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): Not available.

Particle characteristics

Median particle size	: Not applicable.
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Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name

2,2' -oxybisethanol

Result

Rat - Oral - LD50

12565 mg/kg

Mouse - Oral - LD50

23700 mg/kg

Toxic effects: Behavioral - General anesthetic Behavioral - Muscle weakness Liver - Other changes

Rabbit - Oral - LD50

4400 mg/kg

Toxic effects: Behavioral - Coma Lung, Thorax, or Respiration - Dyspnea Changes in Chemistry or Temperature - Body temperature decrease

Rabbit - Dermal - LD50

11890 mg/kg

Mouse - Oral - LD50

2300 mg/kg

Toxic effects: Brain and Coverings - Other degenerative changes Liver - Other changes Kidney, Ureter, and Bladder - Other changes

Rat - Oral - LD50

12000 mg/kg

Toxic effects: Brain and Coverings - Other degenerative changes Liver - Other changes Kidney, Ureter, and Bladder - Other changes

Rabbit - Oral - LD50

26.9 g/kg

Rat - Oral - TDLo

16000 mg/kg

Toxic effects: Kidney, Ureter, and Bladder - Renal function tests depressed Changes in Chemistry or Temperature - Metabolic acidosis

Rat - Oral - TDLo

10 mg/kg

Toxic effects: Kidney, Ureter, and Bladder - Renal function tests depressed Changes in Chemistry or Temperature - Metabolic acidosis Enzyme inhibition, induction, or change in blood or tissue levels - Transaminases

Rat - Inhalation - LC50 Vapor

36 g/m³ [4 hours]

Toxic effects: Behavioral - Excitement Lung, Thorax, or

octamethylcyclotetrasiloxane

Section 11. Toxicological information

Respiration - Dyspnea Other - Hair

Conclusion/Summary [Product] : Not available.

Skin corrosion/irritation

Product/ingredient name

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

2,2' -oxybisethanol

Result

Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 uL

Human - Skin - Mild irritant

Duration of treatment/exposure: 72 hours

Amount/concentration applied: 112 mg l

Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

2,2' -oxybisethanol

Result

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 50 mg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Classification

Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP
bis-[4-(2,3-epoxipropoxy)phenyl]propane	-	3	-
crystalline silica, respirable powder	+	1	Known to be a human carcinogen.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name

crystalline silica, respirable powder

Result

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (inhalation) - Category 1

Aspiration hazard

Not available.

Information on the likely routes of exposure

Not available.

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Section 11. Toxicological information

Potential chronic health effects

Not available.

Conclusion/Summary [Product] : Not available.

General : Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
WEICON F Epoxy Resin	8923.9	N/A	N/A	N/A	N/A
2,2' -oxybisethanol	500	N/A	N/A	N/A	N/A
octamethylcyclotetrasiloxane	N/A	N/A	N/A	36	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name

Aluminium powder (stabilized)

Result

Chronic - NOEC - Fresh water

Aquatic plants - Coontail - *Ceratophyllum demersum*

Weight: 3.5 g

9 mg/l [3 days]

Effect: Enzymes

2,2' -oxybisethanol

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*

Age: 34 days; Size: 19.1 mm; Weight: 0.102 g

75.2 g/l [96 hours]

Effect: Mortality

octamethylcyclotetrasiloxane

Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna*

Age: <24 hours

7.9 µg/l [21 days]

Effect: Mortality

Chronic - NOEC

STDMETH

Algae - Green algae - *Selenastrum capricornutum*

1 to 29 µg/l [96 hours]

Effect: Population

Chronic - NOEC - Fresh water

Fish - Rainbow trout, donaldson trout - *Oncorhynchus mykiss* -

Embryo

Age: ≤24 hours

4.4 µg/l [33 days]

Effect: Mortality

Conclusion/Summary [Product] : Not available.

Section 12. Ecological information

Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	2.7	-	Low
2,2' -oxybisethanol	-1.98	100	Low
decamethylcyclopentasiloxane	8.023	7060 [OECD 305]	High
octamethylcyclotetrasiloxane	6.488	13400 [EPA OTS 797.1520]	High

Mobility in soil

Soil/Water partition coefficient : Not available.

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not available.	UN3082	UN3082	UN3082	UN3082
UN proper shipping name	Not available.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxy)phenyl]propane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxy)phenyl]propane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxy)phenyl]propane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxy)phenyl]propane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)

Section 14. Transport information

Transport hazard class(es)	Not available.	9 	9 	9 	9
Packing group	-	III	III	III	III
Environmental hazards	No.	Yes.	Yes.	Yes.	Yes.

Additional information

TDG Classification

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark). Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.

Mexico Classification

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IMDG

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IATA

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

U.S. Federal regulations

TSCA 8(a) PAIR: Siloxanes and Silicones, di-Me, reaction products with silica

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

TSCA 12(b) - Chemical export notification

Not applicable.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Section 15. Regulatory information

Classification : SKIN IRRITATION - Category 2
 EYE IRRITATION - Category 2A
 SKIN SENSITIZATION - Category 1
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

Composition/information on ingredients

Name	%	Classification
bis-[4-(2,3-epoxipropoxy)phenyl] propane	≥15 - ≤40	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1
crystalline silica, respirable powder	≥15 - ≤40	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	≥10 - ≤30	SKIN IRRITATION - Category 2 SKIN SENSITIZATION - Category 1
Aluminium powder (stabilized)	≥7 - ≤13	FLAMMABLE SOLIDS - Category 1 SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 2
2,2' -oxybisethanol	≥3 - ≤7	ACUTE TOXICITY (oral) - Category 4
1,6-Hexanediol, reaction products with epichlorohydrin	≥1 - ≤5	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1
decamethylcyclopentasiloxane	≤0.1	FLAMMABLE LIQUIDS - Category 4
octamethylcyclotetrasiloxane	≤0.1	FLAMMABLE LIQUIDS - Category 3 TOXIC TO REPRODUCTION - Category 2

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	aluminium, non flammable solid	7429-90-5	≥10 - ≤30
	Aluminium powder (stabilized)	7429-90-5	≥7 - ≤13
Supplier notification	aluminium, non flammable solid	7429-90-5	≥10 - ≤30
	Aluminium powder (stabilized)	7429-90-5	≥7 - ≤13

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: SILICA, CRYSTALLINE, QUARTZ; ALUMINUM; ALUMINUM

New York : None of the components are listed.

New Jersey : The following components are listed: SILICA, QUARTZ; ALUMINUM; ALUMINUM

Pennsylvania : The following components are listed: QUARTZ DUST; ETHANOL, 2,2'-OXYBIS-

California Prop. 65

⚠ WARNING: This product can expose you to Silica, crystalline, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Silica, crystalline	-	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Section 15. Regulatory information

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Eurasian Economic Union	: Russian Federation inventory: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	*	3
Flammability		1
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Procedure used to derive the classification

Classification	Justification
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	Calculation method

History

Date of printing	: 2/3/2026
Date of issue/Date of revision	: 1/29/2026

Section 16. Other information

Date of previous issue : 11/4/2025

Version : 1.6

Key to abbreviations

: ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
DOT = Department of Transportation
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
TDG = Transportation of Dangerous Goods
UN = United Nations

References : Not available.

✔ Indicates information that has changed from previously issued version.

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