



# SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017

Version: 1

Language: en-CA,US

Date of print: 10/Jan/2017

## WEICON WR 2 Resin

Material number 103501

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### 1. Product and company identification

#### Product identifier

Trade name: WEICON WR 2 Resin

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

General use: Resin for 2 component adhesive (epoxy resin).  
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: liquid  
Form: pasty  
Color: black  
Odor: slightly perceptible  
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: 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.  
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

4,9 percent of the mixture consists of components of unknown hazards to the aquatic environment.  
4,9 percent of the mixture consists of ingredient(s) of unknown toxicity.  
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 characterisation: Resin for 2 component adhesive (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)	30 - 60 %	Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1. Aquatic toxicity - chronic 2.
CAS 38640-62-9	Bis(isopropyl)naphthalene	3 - 7 %	Aspiration Toxicity 1. Aquatic toxicity - chronic 1.

Additional information: Depending on handling and use (e.g. grinding, drying) formation of air-borne, respirable crystalline silicon dioxide is possible.  
The maximum workplace exposure limits are, where necessary, listed in section 8.

## 4. First aid measures

General information: Remove all contaminated clothes and footwear immediately unless stuck to skin.  
Wash contaminated clothing before reuse.

In case of inhalation: Provide fresh air. Seek medical treatment in case of troubles.

Following skin contact: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.  
Wash contaminated clothing before reuse. Seek medical attention.

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 consult an ophthalmologist.



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After swallowing: Do not induce vomiting. Rinse mouth with water. Let water be swallowed in little sips. 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. Respiratory complaints, nausea, vomiting, drowsiness.

### Information to physician

Treat symptomatically. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

## 5. Fire fighting measures

Flash point/flash point range:

> 200 °C (Closed Cup)

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: Halogenated compounds, sulphur oxides, Metal oxide smoke, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing. In case of fire and/or explosion do not breathe fumes.

Additional information:

You have to dispose of contaminated extinguishing water according to the regulations of the authorities.

## 6. Accidental release measures

Personal precautions:

Provide adequate ventilation. Use a breathing protection against vapors/aerosol. Do not breathe vapor or spray.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

Keep unprotected people away. Keep away from sources of ignition. Avoid contact with skin and eyes. Eye wash facility must be provided.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains. Do not allow to enter into soil/subsoil. If necessary notify appropriate authorities.

Methods for clean-up:

Take up with non-flammable, liquid binding material (e.g. sand/earth/diatomaceous earth/vermiculit) and perform disposal according to instructions. Thoroughly clean surrounding area.



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## 7. Handling and storage

### Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe vapor or spray.  
Wear appropriate protective equipment. 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.  
Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion:

Take care of general rules for industrial preventive fire protection.

### Storage

Requirements for storerooms and containers:

Keep only in the original container. Protect from heat and direct sunlight. Store in a dry place.

Keep container tightly closed in a cool, well-ventilated place. Protect from frost. Storage temperature: 2-40 °C

Hints on joint storage:

Keep away from strong acids, strong alkalis and strong oxidizing agents.  
Keep away from food, drink and animal feedingstuffs.

## 8. Exposure controls / personal protection

### Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
14808-60-7	Quartz (SiO <sub>2</sub> )	Canada, Alberta: OEL 8 hour	0.025 mg/m <sup>3</sup>
		Canada, BC: OEL TWA	0.025 mg/m <sup>3</sup>
		Canada, Ontario: OEL TWA	0.1 mg/m <sup>3</sup> (respirable fraction)
		Canada, Québec: VEMP	0.1 mg/m <sup>3</sup> (respirable fraction)
		USA: ACGIH: TWA	0.025 mg/m <sup>3</sup> (respirable fraction)
		USA: NIOSH: TWA	0.05 mg/m <sup>3</sup> (respirable fraction)
		USA: OSHA: TWA	10 mg/m <sup>3</sup> /% SiO <sub>2</sub> + 2 (respirable Dust)
		USA: OSHA: TWA	250 mppcf/%SiO <sub>2</sub> +5 fine dust
		USA: OSHA: TWA	30 mg/m <sup>3</sup> /% SiO <sub>2</sub> + 2 inhalable fraction

### Engineering controls

Provide good ventilation and/or an exhaust system in the work area.

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: Butyl caoutchouc (butyl rubber) - Layer thickness: 0.7 mm  
Breakthrough time: > 480 min  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Use a breathing protection against vapors/aerosol.  
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.



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### General hygiene considerations:

Avoid contact with skin and eyes. Work place should be equipped with a shower and an eye rinsing apparatus. Do not breathe vapor or spray.  
Take off immediately all 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 20 °C and 101.3 kPa: liquid Form: pasty Color: black
Odor:	slightly perceptible
Odor threshold:	not determined
pH value:	not determined
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	> 200 °C
Flash point/flash point range:	> 200 °C (Closed Cup)
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: $\leq 0.01$ Pa
Vapor density:	No data available
Density:	No data available
Water solubility:	at 20 °C: practically insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	not determined
Thermal decomposition:	>200 °C
Viscosity, dynamic:	not determined
Ignition temperature:	not determined
Additional information:	Relative density 25 °C: 2 g/cm <sup>3</sup>

## 10. Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Reacts with strong acids, strong alkalis, and strong oxidizing agents.
Conditions to avoid:	Protect from heat and direct sunlight. Protect from frost.
Incompatible materials:	Strong acids, alkalis and strong oxidizing agents
Hazardous decomposition products:	Toxic gases/vapours. 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.  
Eye damage/irritation: Eye Irritation 2A = Causes serious eye irritation.  
Sensitisation to the respiratory tract: Lack of data.  
Skin sensitisation: Sensitization - skin 1 = May cause an allergic skin reaction.  
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: 4,9 percent of the mixture consists of ingredient(s) of unknown toxicity.  
Information about Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq 700$ ):  
Acute oral toxicity: LD50, Rat: > 2000 mg/kg  
Acute dermal toxicity: LD50, Rabbit: > 2000 mg/kg  
LC50, Rat, inhalative:  $1 \times 10^{-5}$  ppm/5h  
For carcinogenic effects:  
Information about Quartz (SiO<sub>2</sub>):  
IARC Rating: Group 1  
OSHA Carcinogen: not listed  
NTP Rating: listed

## 12. Ecological information

### Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.  
4,9 percent of the mixture consists of components of unknown hazards to the aquatic environment.  
Information about Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq 700$ ):  
Algae toxicity:  
EC50 *Scenedesmus capricornutum*: 9.4 mg/L/72h.  
Daphnia toxicity:  
EC50 *Daphnia magna* (Big water flea): 1.1-3.8 mg/L/48h (OECD 202).  
NOEC *Daphnia magna* (Big water flea): 0.3 mg/L/21d (OECD 211).  
Fish toxicity:  
LC50 *Oncorhynchus mykiss*: 1.2 mg/L/96h.

### Mobility in soil

No data available



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### Persistence and degradability

Further details: Information about Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq 700$ ):  
Biodegradation: 5 % (OECD 301 F) Product is biodegradable with difficulty.

### Additional ecological information

Volatile organic compounds (VOC):  
0 % by weight  
General information: Do not allow to penetrate into soil, waterbodies or drains. Do not allow uncontrolled discharge of product into the environment.

## 13. Disposal considerations

### Product

Recommendation: Dispose of waste according to applicable legislation. Dispose of as hazardous waste.

### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself.

## 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  $\leq 700$ ), bis(isopropyl)naphthalene)  
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  $\leq 700$ ), bis(isopropyl)naphthalene)  
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), bis(isopropyl)naphthalene)  
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), bis(isopropyl)naphthalene)  
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





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### National regulations - U.S. Federal Regulations

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

Bis(isopropyl)naphthalene:

Polyethylene glycol:

Quartz (SiO2):

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

TSCA Inventory: listed  
TSCA HPVC: not listed

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TSCA HPVC: not listed

TSCA Inventory: listed  
TSCA HPVC: not listed

Carcinogen Status:  
IARC Rating: Group 1  
OSHA Carcinogen: not listed  
NTP Rating: listed

NIOSH Recommendations:  
Occupational Health Guideline:  
0553

### National regulations - U.S. State Regulations

Quartz (SiO2):

California Proposition 65: cancer  
Rhode Island HSL: listed

## 16. Other information

Text for labeling: Contains 30 - 60 % Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin  
(number average molecular weight <=700), 3 - 7 % Bis(isopropyl)naphthalene. 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

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### 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.