



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

Fast-Metal Minute Adhesive Resin

Material number 105511

Page: 1 of 10

1. Product and company identification

Product identifier

Trade name: Fast-Metal Minute Adhesive Resin

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

General use: Two component epoxy adhesive.

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: black
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.

Precautionary statements: Keep out of reach of children.
Avoid breathing vapors.
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.
Collect spillage.
Dispose of contents/container to hazardous or special waste collection point.



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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

Special danger of slipping by leaking/spilling product.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterisation: Epoxide resin-based adhesive.

Relevant ingredients:

| CAS No. | Designation | Content | Classification |
|----------------|--|-----------|---|
| CAS 25068-38-6 | Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <=700) | 30 - 50 % | Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1. Aquatic toxicity - chronic 2. |
| CAS 28064-14-4 | Bisphenol-F-epichlorhydrine resin | 1 - 5 % | Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1. Aquatic toxicity - chronic 2. |
| CAS 100-51-6 | Benzyl alcohol | 1 - 5 % | Acute Toxicity 4 (oral). Acute Toxicity 4 (inhalative). Eye Irritation 2A. |
| CAS 2425-79-8 | 1,4-bis(2,3-Epoxypropoxy) butane | 1 - 5 % | Acute Toxicity 4 (dermal). Acute Toxicity 4 (inhalative). Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1. Aquatic toxicity - chronic 3. |

Additional information: Contains Limestone, Barium sulfate, Magnesium carbonate and Talcum. The maximum workplace exposure limits are, where necessary, listed in section 8.

4. First aid measures

| | |
|-------------------------|---|
| In case of inhalation: | Provide fresh air. Move victim to fresh air; if necessary, provide artificial respiration or oxygen. If the casualty has difficulty breathing, call a doctor immediately. |
| 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. Seek medical treatment in case of troubles. |
| After eye contact: | Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Seek the attention of an ophthalmologist immediately. |
| After swallowing: | Rinse mouth with water. Do not induce vomiting without medical assistance. In case of vomiting, lay at least head on side. 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

Treat symptomatically.



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5. Fire fighting measures

Flash point/flash point range:

not applicable

Auto-ignition temperature: not determined

Suitable extinguishing media:

Alcohol resistant 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

This material is combustible, but will not ignite readily.

In case of fire may be liberated: Smoke, aldehydes, phenols, carbon monoxide and carbon dioxide

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Cool endangered containers with water spray and, if possible, remove from danger zone. Use a water fog to control vapors. Do not breathe fumes. Do not allow fire water to penetrate into surface or ground water.

6. Accidental release measures

Personal precautions:

Eliminate all ignition sources if safe to do so. Avoid contact with skin, eyes, and clothing. Use suitable personal protective equipment to protect skin and eyes. Do not breathe vapor or spray. When vapors form, use respiratory protection. Ensure adequate ventilation, especially in confined areas. Keep unprotected people away.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains. In case of entry into waterways, soil or drains, inform the responsible authorities.

Methods for clean-up:

Plug leak if safely possible. 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.

Additional information:

Special danger of slipping by leaking/spilling product.

7. Handling and storage

Handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Handle and open container with care. Avoid contact with skin, eyes, and clothing. Take off contaminated clothing and wash it before reuse. Do not breathe vapor or spray. Wear appropriate protective equipment. When using do not eat, drink or smoke. Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion:

Usual measures for fire prevention.

Storage

Requirements for storerooms and containers:

Store in original container only. Keep container tightly closed in a cool, well-ventilated place. Keep container dry. Keep away from sources of ignition. Recommended storage temperature: 10 - 30 °C Protect from heat and direct sunlight.

Hints on joint storage:

Do not store together with strong bases, oxidizing agents, strong acids or amines. Keep away from food and drinks.



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8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

| CAS No. | Designation | Type | Limit value |
|----------------------|---|-----------------------------|---|
| 7727-43-7 | Barium sulfate | Canada, Alberta: OEL 8 hour | 10 mg/m ³ |
| | | Canada, BC: OEL TWA | 10 mg/m ³ inhalable fraction |
| | | Canada, BC: OEL TWA | 3 mg/m ³ respirable fraction |
| | | Canada, Québec: VEMP | 10 mg/m ³ (inhalable fraction) |
| | | Canada, Québec: VEMP | 5 mg/m ³ (respirable fraction) |
| | | USA: ACGIH: TWA | 5 mg/m ³ (inhalable fraction) |
| | | USA: NIOSH: TWA | 10 mg/m ³ (inhalable fraction) |
| | | USA: NIOSH: TWA | 5 mg/m ³ (respirable fraction) |
| | | USA: OSHA: TWA | 15 mg/m ³ (inhalable fraction) |
| | | USA: OSHA: TWA | 5 mg/m ³ (respirable fraction) |
| 1317-65-3 | Limestone | Canada, Alberta: OEL 8 hour | 10 mg/m ³ |
| | | Canada, BC: OEL STEL | 20 mg/m ³ inhalable fraction |
| | | Canada, BC: OEL TWA | 10 mg/m ³ inhalable fraction |
| | | Canada, BC: OEL TWA | 3 mg/m ³ respirable fraction |
| | | Canada, Québec: VEMP | 10 mg/m ³ (inhalable fraction) |
| | | USA: NIOSH: TWA | 10 mg/m ³ inhalable fraction |
| | | USA: NIOSH: TWA | 5 mg/m ³ (respirable fraction) |
| | | USA: OSHA: TWA | 15 mg/m ³ inhalable fraction |
| | | USA: OSHA: TWA | 5 mg/m ³ (respirable fraction) |
| | | 546-93-0 | Magnesium carbonate |
| Canada, Québec: VEMP | 10 mg/m ³ (inhalable fraction) | | |
| USA: NIOSH: TWA | 10 mg/m ³ inhalable fraction | | |
| USA: NIOSH: TWA | 5 mg/m ³ (respirable fraction) | | |
| USA: OSHA: TWA | 15 mg/m ³ inhalable fraction | | |
| USA: OSHA: TWA | 5 mg/m ³ (respirable fraction) | | |
| 14807-96-6 | Talcum | Canada, Alberta: OEL 8 hour | 2 mg/m ³ (respirable fraction) |
| | | Canada, BC: OEL TWA | 0.1 fibers/cm ³ |
| | | Canada, BC: OEL TWA | (Containing asbestos fibres) |
| | | Canada, BC: OEL TWA | 2 mg/m ³ |
| | | Canada, BC: OEL TWA | respirable fraction (Containing no asbestos fibres) |
| | | Canada, Ontario: OEL TWA | 2 fibers/cm ³ |
| | | Canada, Ontario: OEL TWA | 2 mg/m ³ respirable fraction |
| | | Canada, Québec: VEMP | 3 mg/m ³ (respirable fraction) |
| | | USA: ACGIH: TWA | 2 mg/m ³ respirable fraction |
| | | USA: NIOSH: TWA | 2 mg/m ³ |
| USA: OSHA: TWA | 20 mppcf | | |
| USA: OSHA: TWA | Containing less than 1% quartz | | |

Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection Tightly sealed safety glasses

Skin protection Wear suitable protective clothing.



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Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Glove material: Nitrile rubber, Neoprene, PVC.

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

Respiratory protection: 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:

Avoid contact with skin, eyes, and clothing. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Eye wash facility must be provided. 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: | Form: pasty Color: black |
| 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: | not applicable |
| Flash point/flash point range: | not applicable |
| 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: not determined <= 66.7 Pa |
| Vapor density: | not determined |
| Density: | approx. 1.9 g/mL |
| Water solubility: | soluble |
| Partition coefficient: n-octanol/water: | No data available |
| Auto-ignition temperature: | not determined |
| Thermal decomposition: | No data available |
| Ignition temperature: | not determined |

10. Stability and reactivity

| | |
|-------------------------------------|--|
| Reactivity: | combustible |
| Chemical stability: | Stable under recommended storage conditions. |
| Possibility of hazardous reactions: | Exothermic reactions with strong alkalis, strong acids, oxidizing agents and amines. Polymerization along with heat production. |
| Conditions to avoid: | Excessive heating, humidity. Avoid the formation of aerosol/vapors. |
| Incompatible materials: | Strong bases, strong oxidizing agents, strong acids, amines |



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Hazardous decomposition products:

In case of fire may be liberated: carbon black, Toxic gases/vapours, carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

11. Toxicological information

Toxicological tests

Toxicological effects: 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: Information about Bisphenol-A-(epichlorhydrin) epoxy resin (molecular weight <=700):
LD50 Rat (oral): >2000 mg/kg
LD50 Rabbit (dermal): >2000 mg/kg
Information about Bisphenol-F-epichlorhydrine resin:
LD50 Rat (oral): >2000 mg/kg
LD50 Rabbit (dermal): >2000 mg/kg
Information about 1,4-bis(2,3-Epoxypropoxy)butane:
LD50 Rat (oral): 1134 mg/kg
LD50 Rabbit (dermal): 1100 mg/kg

General remarks

For carcinogenic effects:
Information about Talcum:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: listed

12. Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

Mobility in soil

No data available

Persistence and degradability

Further details: Product is not readily biodegradable.



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Additional ecological information

General information: Do not allow to penetrate into soil, waterbodies or drains.

13. Disposal considerations

Product

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Do not remove label until container is thoroughly cleaned. 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 with Bisphenol A-epichlorhydrin epoxy resin (molecular weight = 700), Bisphenol-F-epichlorhydrine resin)

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 with Bisphenol A-epichlorhydrin epoxy resin (molecular weight = 700), Bisphenol-F-epichlorhydrine resin)

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 with Bisphenol A-epichlorhydrin epoxy resin (molecular weight = 700), Bisphenol-F-epichlorhydrine resin)
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 with Bisphenol A-epichlorhydrin epoxy resin (molecular weight = 700), Bisphenol-F-epichlorhydrine resin)
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): | TSCA Inventory: listed; EPA flags XU TSCA HPVC: not listed |
| Barium sulfate: | TSCA Inventory: listed TSCA HPVC: not listed NIOSH Recommendations: Occupational Health Guideline: 0047 |
| Limestone: | TSCA Inventory: listed; UVCB TSCA HPVC: not listed NIOSH Recommendations: Occupational Health Guideline: 0090* |
| Bisphenol-F-epichlorhydrine resin: | TSCA Inventory: listed; UVCB; EPA flags XU TSCA HPVC: not listed |
| Benzyl alcohol: | TSCA Inventory: listed TSCA HPVC: not listed Clean Air Act: SOCMI Chemical: yes Other Environmental Laws: RCRA Groundwater Monitoring: Methods 8270 / PQL 20 |
| Magnesium carbonate: | TSCA Inventory: listed TSCA HPVC: not listed NIOSH Recommendations: Occupational Health Guideline: 0373 |
| Talcum: | TSCA Inventory: listed TSCA HPVC: not listed Carcinogen Status: IARC Rating: Group 3 OSHA Carcinogen: not listed NTP Rating: not listed NIOSH Recommendations: Occupational Health Guideline: 0584 |
| 1,4-bis(2,3-Epoxypropoxy)butane: | TSCA Inventory: listed; EPA flags T TSCA HPVC: not listed TSCA: listed |

National regulations - U.S. State Regulations

| | |
|-----------------|--|
| Barium sulfate: | California Proposition 65 code: not listed Massachusetts Haz. Substance codes: 4 Minnesota Haz. Substance: Codes: A - Ratings: -- Pennsylvania Haz. Substance code: - Washington Air Contaminant: TWA: 10 mg |
| Benzyl alcohol: | Massachusetts Haz. Substance codes: 6 Pennsylvania Haz. Substance code: - |
| Talcum: | California Proposition 65 code: not listed Massachusetts Haz. Substance codes: 2,4 F5 Minnesota Haz. Substance: Codes: AO - Ratings: -- Pennsylvania Haz. Substance code: - Washington Air Contaminant: TWA: 2mg Wisconsin Hazardous Air Contaminant List (Appears on Table): A |



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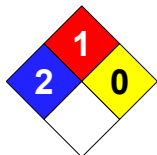
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16. Other information

Text for labeling: Contains 30 - 50 % Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700), 1 - 5 % Bisphenol-F-epichlorhydrine resin, 1 - 5 % Benzyl alcohol, 1 - 5 % 1,4-bis(2,3-Epoxypropoxy)butane. 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: ADR/RID 2017

Date of first version: 8/Oct/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.