

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date July 12, 2017

Reviewed on July 12, 2017

1 Identification

- **Product identifier**
- **Trade name:** Valtron AD4010A
- **Article number:** AD4010A
- **Recommended use and restriction on use**
- **Recommended use:** Epoxy resin
- **Restrictions on use:** No further relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Valtech Corporation
2113 Sanatoga Station Road
Pottstown, PA 19464-3275 USA
610-705-5900
- **Emergency telephone number:**
ChemTel Inc
1-800-255-3924 (US/Canada); +1-813-248-0585 (International);
400-120-0751 (China); 000-800-100-4086 (India); 01-800-099-0731 (Mexico)



2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07 GHS08

- **Signal word** Warning

- **Hazard-determining components of labeling:**

Epoxy resin

1,1-dichloroethylene

Polyglycol diglycidyl ether

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- **Hazard statements**

H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H351 Suspected of causing cancer.

- **Precautionary statements**

P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing mist, vapors, or spray.
 P264 Wash thoroughly after handling.
 P281 Use personal protective equipment as required.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Hazard description:**

- **WHMIS-symbols:**

As of 11 February 2015, the current WHMIS system is being replaced by the GHS system. This is the classification under the older system.
 D2A - Very toxic material causing other toxic effects



- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 1
 Fire = 1
 Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = *1
 Fire = 1
 Reactivity = 0

* - Indicates a long term health hazard from repeated or prolonged exposures.

- **Other hazards**

- **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.
 · **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

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Dangerous components:

| | | |
|------------|--|---------|
| 75-28-5 | isobutane ⚠ Flam. Gas 1, H220 ⚠ Press. Gas, H280 | 25-50% |
| | Proprietary epoxy resin ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | 25-50% |
| | Hydrocarbons ⚠ Asp. Tox. 1, H304 | 2.5-10% |
| 75-35-4 | 1,1-dichloroethylene ⚠ Flam. Liq. 1, H224 ⚠ Carc. 2, H351 ⚠ Acute Tox. 4, H332 | 2.5-10% |
| | Alkylphenolethoxylate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319 | ≤ 2.5% |
| 41638-13-5 | Polyglycol diglycidyl ether ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317 | ≤ 2.5% |

Additional information:

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

4 First-aid measures**Description of first aid measures****General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out into the fresh air.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

Respiration of particulates is unlikely during normal usage.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Do not pull solidified product away from the skin.

If skin irritation continues, consult a doctor.

After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

Information for doctor:**Most important symptoms and effects, both acute and delayed**

Allergic reactions

Nausea

Coughing

Breathing difficulty

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Gastric or intestinal disorders

Irritant to eyes.

Irritant to skin and mucous membranes.

- **Danger**

Danger of impaired breathing.

Limited evidence of a carcinogenic effect.

- **Indication of any immediate medical attention and special treatment needed**

Medical supervision for at least 48 hours.

If necessary oxygen respiration treatment.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

Water fog / haze

Foam

Fire-extinguishing powder

Carbon dioxide

- **For safety reasons unsuitable extinguishing agents:**

Water stream.

Water spray

- **Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

- **Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

- **Additional information**

Eliminate all ignition sources if safe to do so.

Cool endangered receptacles with water fog.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

Ensure adequate ventilation.

Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

- **Methods and material for containment and cleaning up:**

Allow to solidify. Pick up mechanically.

Clean the affected area carefully; suitable cleaners are:

Warm water and cleansing agent

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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· **Reference to other sections**

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

- Store in cool, dry place in tightly closed receptacles.
- Use only in well ventilated areas.
- Open and handle receptacle with care.

· **Information about protection against explosions and fires:**

- Keep respiratory protective device available.
- Protect from heat.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

- Store in a cool location.
- Store only in the original receptacle.
- Avoid storage near extreme heat, ignition sources or open flame.

· **Information about storage in one common storage facility:**

- Store away from foodstuffs.
- Store away from oxidizing agents.

· **Further information about storage conditions:**

- Keep containers tightly sealed.
- Store receptacle in a well ventilated area.

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

75-28-5 isobutane

| | |
|---------------|---|
| TLV (USA) | Short-term value: 2370 mg/m ³ , 1000 ppm |
| EV (Canada) | Long-term value: 800 ppm |
| LMPE (Mexico) | Long-term value: 1000 ppm |

75-35-4 1,1-dichloroethylene

| | |
|-------------|---|
| REL (USA) | See Pocket Guide App.A |
| TLV (USA) | Long-term value: 20 mg/m ³ , 5 ppm |
| EL (Canada) | Long-term value: 1 ppm |

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| | |
|---------------|---|
| EV (Canada) | Short-term value: 80 mg/m ³ , 20 ppm Long-term value: 4 mg/m ³ , 1 ppm |
| LMPE (Mexico) | Long-term value: 5 ppm A4 |

• **Additional information:** The lists that were valid during the creation were used as basis.

• **Exposure controls**

• **Personal protective equipment:**

• **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Do not inhale gases / fumes / aerosols.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

• **Engineering controls:** No further relevant information available.

• **Breathing equipment:**

Not required under normal conditions of use.

Use suitable respiratory protective device in case of insufficient ventilation.

Use suitable respiratory protective device when aerosol or mist is formed.

For spills, respiratory protection may be advisable.

Use respiratory protection when grinding or cutting material.

• **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

• **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**



Safety glasses

• **Body protection:** Protective work clothing

• **Limitation and supervision of exposure into the environment** No special requirements.

• **Risk management measures**

See Section 7 for additional information.

No further relevant information available.

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9 Physical and chemical properties

- Information on basic physical and chemical properties

- General Information

- Appearance:

Form: Viscous

Color: White

- Odor: Ammonia-like

- Odor threshold: Not determined.

- pH-value: Not determined.

- Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: >93 °C (>199 °F)

- Flash point: Not applicable.

- Flammability (solid, gaseous): Not applicable.

- Auto-ignition temperature: Not determined.

- Decomposition temperature: Not determined.

- Auto igniting: Product is not self-igniting.

- Danger of explosion: Product does not present an explosion hazard.

- Explosion limits:

Lower: Not determined.

Upper: Not determined.

- Vapor pressure: Not determined.

- Density at 20 °C (68 °F): 1.03 g/cm³ (8.595 lbs/gal)

- Relative density: Not determined.

- Vapour density: Not determined.

- Evaporation rate: Not determined.

- Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

- Partition coefficient (n-octanol/water): Not determined.

- Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

- Other information: No further relevant information available.

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10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
Reacts with oxidizing agents.
Reacts with strong alkali.
Reacts with catalysts.
Reacts with peroxides and other radical forming substances.
Toxic fumes may be released if heated above the decomposition point.
- **Conditions to avoid** Store away from oxidizing agents.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Hydrocarbons
Hydrogen chloride (HCl)

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

| | |
|-------------------------------------|---------------------------|
| 75-35-4 1,1-dichloroethylene | |
| Inhalative | LC50/4h 6350 mg/l (mouse) |
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
Danger through skin absorption.
Toxic and/or corrosive effects may be delayed up to 24 hours.
- **Carcinogenic categories**
- **NTP (National Toxicology Program)**

| |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|
- **OSHA-Ca (Occupational Safety & Health Administration)**

| |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|
- **Probable Routes of Exposure**
Ingestion.
Eye contact.
Skin contact.
- **Acute effects (acute toxicity, irritation and corrosivity):**
Danger through skin absorption.
Irritating to eyes and skin.

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- **Repeated Dose Toxicity:**
May cause damage to organs through prolonged or repeated exposure.
Repeated exposures may result in skin and/or respiratory sensitivity.
Possible risk of irreversible effects.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
Carc. 2
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Suspected of causing cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:**
The material is harmful to the environment.
Toxic for aquatic organisms
- **Persistence and degradability** The product is partially biodegradable. Significant residuals remain.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** May be accumulated in organism
- **Mobility in soil** No further relevant information available.
- **Ecotoxical effects:**
- **Remark:**
Toxic for fish
Due to mechanical actions of the product (e.g. agglutinations) damages may occur.
The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.
- **Additional ecological information:**
- **General notes:**
This statement was deduced from the properties of the single components.
Avoid transfer into the environment.
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

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The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **UN-Number**
- **DOT** Not Regulated
- **ADR, IMDG, IATA** UN3082
- **UN proper shipping name**
-  Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5 L (1.3 gal).
- **DOT** Not Regulated
- **ADR** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Mixed Epoxy Resin)
- **IMDG, IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Mixed Epoxy Resin)
- **Transport hazard class(es)**
- **DOT**
- **Class** Not Regulated
- **ADR**
- 

- **Class** 9 (M6) Miscellaneous dangerous substances and articles
- **Label** 9
- **IMDG**
- 
- **Class** 9 Miscellaneous dangerous substances and articles
- **Label** 9
- **IATA**
- 

- **Class** 9 Miscellaneous dangerous substances and articles
- **Label** 9

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- **Packing group**
- **DOT** Not Regulated
- **ADR, IMDG, IATA** III
- **Environmental hazards:**
- **Marine pollutant:** Yes
- **Special marking (ADR):** Symbol (fish and tree)
- **Special marking (IATA):** Symbol (fish and tree)
- **Special precautions for user** Warning: Miscellaneous dangerous substances and articles
- **Danger code (Kemler):** 90
- **EMS Number:** F-A,S-F
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **Transport/Additional information:**
- **DOT**
- **Remarks:** Not regulated for Land Transport in the USA.
- **UN "Model Regulation":** UN3082, Environmentally hazardous substances, liquid, n.o.s. (Mixed epoxy resin), 9, III

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

75-35-4 | 1,1-dichloroethylene

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65 (California)**

- **Chemicals known to cause cancer:**

Present in trace quantities.

106-89-8 | 1-chloro-2,3-epoxypropane

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for males:**

Present in trace quantities.

106-89-8 | 1-chloro-2,3-epoxypropane

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

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· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

| | | |
|---------|----------------------|-----------------------|
| 75-35-4 | 1,1-dichloroethylene | C, S (inh.), I (oral) |
|---------|----------------------|-----------------------|

· **IARC (International Agency for Research on Cancer)**

| | | |
|---------|----------------------|---|
| 75-35-4 | 1,1-dichloroethylene | 3 |
|---------|----------------------|---|

· **TLV (Threshold Limit Value established by ACGIH)**

| | | |
|---------|----------------------|----|
| 75-35-4 | 1,1-dichloroethylene | A4 |
|---------|----------------------|----|

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

| | | |
|---------|----------------------|--|
| 75-35-4 | 1,1-dichloroethylene | |
|---------|----------------------|--|

· **State Right to Know Listings**

None of the ingredients is listed.

· **Canadian substance listings:**· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

| | | |
|---------|----------------------|--|
| 75-35-4 | 1,1-dichloroethylene | |
|---------|----------------------|--|

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 06/17/2015 / July 12, 2017· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Gas 1: Flammable gases, Hazard Category 1

Press. Gas: Gases under pressure: Compressed gas

Flam. Liq. 1: Flammable liquids, Hazard Category 1

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

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Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B

Carc. 2: Carcinogenicity, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Sources

SDS Prepared by:

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