

# Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200)

Revision: August 07, 2020

## 1 Identification

- **Product identifier**
- **Trade name:** Valtron AD4010A
- **Product code:** AD4010A
- **Recommended use and restriction on use**
- **Recommended use:** Epoxy resin
- **Restrictions on use:** No 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  
1-800-255-3924 (US/Canada)  
+1 813-248-0585 (International)  
400-120-0751 (China)  
000-800-100-4086 (India)  
800-099-0731 (Mexico)



## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
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.  
Carc. 2 H351 Suspected of causing cancer.
- **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 statements:**  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.
- **Precautionary statements:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 Wash thoroughly after handling.

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- P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection.  
P302+P352 If on skin: Wash with plenty of soap and water.  
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.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **NFPA ratings (scale 0 - 4)**



Health = 1  
Fire = 1  
Instability = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 1  
Fire = 1  
Reactivity = 0

- **Other hazards** There are no other hazards not otherwise classified that have been identified.

## 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

75-28-5	Isobutane	<50%
	Flam. Gas 1, H220 Press. Gas, H280 Simple Asphyxiant	
25068-38-6	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	25-50%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
	Trade Secret Hydrocarbons	2.5-10%
	Asp. Tox. 1, H304	
75-35-4	1,1-dichloroethylene	1-3%
	Flam. Liq. 1, H224 Carc. 2, H351 Acute Tox. 4, H332	
	Trade Secret Alkylphenolethoxylate	<2.5%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
41638-13-5	Polyglycol diglycidyl ether	<2.5%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317	

· **Additional information:**

For the wording of the listed Hazard Statements, refer to section 16.

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For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.  
Isobutane encapsolated in polymer.

### 4 First-aid measures

- **Description of first aid measures**

- **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:**

Do not pull solidified product away from the skin.  
Immediately wash with water and soap and rinse thoroughly.  
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.

- **Most important symptoms and effects, both acute and delayed:**

Allergic reactions  
Nausea  
Coughing  
Breathing difficulty  
Gastric or intestinal disorders  
Causes eye irritation.  
Irritant to skin and mucous membranes.

- **Danger:**

Danger of impaired breathing.  
Suspected of causing cancer.

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

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**

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- **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 containers 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**

Avoid release to the environment.

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

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Sweep up and place into an appropriate container.

- **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.

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

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

Store in cool, dry conditions in well sealed receptacles.

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.

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

## 8 Exposure controls/personal protection

- **Control parameters**

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

75-28-5 Isobutane

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TLV (USA)	Short-term value: 2370 mg/m <sup>3</sup> , 1000 ppm
EV (Canada)	Long-term value: 800 ppm
LMPE (Mexico)	Long-term value: 1000 ppm
<b>75-35-4 1,1-dichloroethylene</b>	
REL (USA)	See Pocket Guide App.A
TLV (USA)	Long-term value: 20 mg/m <sup>3</sup> , 5 ppm
EL (Canada)	Long-term value: 1 ppm
EV (Canada)	Short-term value: 80 mg/m <sup>3</sup> , 20 ppm Long-term value: 4 mg/m <sup>3</sup> , 1 ppm
LMPE (Mexico)	Long-term value: 5 ppm A4

### Exposure controls

#### 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 relevant information available.

#### Breathing equipment:

Not required under normal conditions of use.

Use suitable respiratory protective device in case of insufficient ventilation.

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.

#### Eye protection:



Safety glasses

#### Body protection: Protective work clothing

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

#### Risk management measures No relevant information available.

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance:

Form: Viscous

Color: White

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· <b>Odor:</b>	Ammonia-like
· <b>Odor threshold:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Melting point/Melting range:</b>	Not determined.
· <b>Boiling point/Boiling range:</b>	>93 °C (>199.4 °F)
· <b>Flash point:</b>	Not applicable.
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Auto-ignition temperature:</b>	Not determined.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits</b>	
Lower:	Not determined.
Upper:	Not determined.
· <b>Oxidizing properties:</b>	Non-oxidizing.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density:</b>	
Relative density:	1.03
Vapor density:	Not determined.
Evaporation rate:	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity</b>	
Dynamic:	Not determined.
Kinematic:	Not determined.
· <b>Other information</b>	No relevant information available.

### 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **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 relevant information available.
- **Hazardous decomposition products**

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Under fire conditions only:  
Carbon monoxide and carbon dioxide  
Hydrocarbons  
Hydrogen chloride (HCl)

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

- **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.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

- **NTP (National Toxicology Program):**

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

- **Probable route(s) of exposure:**

Ingestion.  
Eye contact.  
Skin contact.

- **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** Toxic to aquatic life with long lasting effects.
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Other adverse effects** No relevant information available.

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### 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. 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.

### 14 Transport information

- **UN-Number**

- **DOT**

- **ADR/RID/ADN, IMDG, IATA**

Not regulated.

UN3082

- **UN proper shipping name**

- **DOT**

- **ADR/RID/ADN, IMDG, IATA**

Not regulated.

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Mixed Epoxy Resin)

- **Transport hazard class(es)**

- **DOT**

- **Class**

Not regulated.

- **ADR/RID/ADN**



- **Class**

9 (M6)

- **Label**

9

- **IMDG, IATA**



- **Class**

9

- **Label**

9

- **Packing group**

- **DOT**

- **ADR/RID/ADN, IMDG, IATA**

Not regulated.

III

- **Environmental hazards**

- **Marine pollutant:**

Symbol (fish and tree)

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<ul style="list-style-type: none"> <li>Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> </ul>	Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F
<ul style="list-style-type: none"> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>Transport/Additional information:</li> </ul>	Not regulated when carried in single or combination packaging containing a net quantity of 5 L or less for liquids or 5 kg or less for solids per the following: DOT: 171.4(c)(2) ADR: SP 375 IMDG: 2.10.2.7 IATA: special provision A197
<ul style="list-style-type: none"> <li>DOT</li> <li>Remarks:</li> </ul>	Transport labeling is not required for non-bulk single package shipments by motor vehicle, rail car or aircraft. Bulk packaging consists of a maximum capacity of greater than 450L (119 gallons) for a liquid and a maximum net mass greater than 400kg (882 pounds) for a solid.

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture

- United States (USA)

- SARA

- Section 302 (extremely hazardous substances):

None of the ingredients are listed.

- Section 313 (Specific toxic chemical listings):

75-35-4 | 1,1-dichloroethylene

- TSCA (Toxic Substances Control Act)

All ingredients are listed or exempt.

- Proposition 65 (California)

- Chemicals known to cause cancer:

Present in trace quantities.

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

- Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

- Chemicals known to cause developmental toxicity for males:

Present in trace quantities.

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

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**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**EPA (Environmental Protection Agency):**

75-35-4 | 1,1-dichloroethylene

C, S (inh.), I (oral)

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

None of the ingredients are listed.

**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.

**Relevant phrases**

- H220 Extremely flammable gas.
- H224 Extremely flammable liquid and vapor.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H351 Suspected of causing cancer.

**Date of preparation / last revision August 07, 2020 / -****Abbreviations and acronyms:**

- ADR: 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
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMS: Hazardous Materials Identification System (USA)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- OSHA: Occupational Safety & Health Administration
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- Flam. Gas 1: Flammable gases – Category 1
- Press. Gas: Gases under pressure – Compressed gas
- Flam. Liq. 1: Flammable liquids – Category 1
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
- Skin Sens. 1: Skin sensitisation – Category 1
- Skin Sens. 1B: Skin sensitisation – Category 1B
- Carc. 2: Carcinogenicity – Category 2
- Asp. Tox. 1: Aspiration hazard – Category 1

**Sources**

- Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))
- Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do))
- Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))
- Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

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Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN:  
978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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