

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date July 13, 2017

Reviewed on July 13, 2017

1 Identification

- **Product identifier**
- **Trade name:** Valtron AD4015B
- **Article number:** AD4015B
- **Recommended use and restriction on use**
- **Recommended use:** Epoxy curing agent
- **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); 800-099-0731 (Mexico)



2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.



GHS07

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**



GHS05 GHS07

- **Signal word** Danger

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

Proprietary amine

- **Hazard statements**

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

- **Precautionary statements**

P260 Do not breathe mist/vapours/spray.

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date July 13, 2017

Reviewed on July 13, 2017

Trade name: Valtron AD4015B

(Contd. of page 1)

- P280 Wear protective gloves and eye protection.
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
 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.

D2B - Toxic material causing other toxic effects

E - Corrosive material



• **Classification system:**

• **NFPA ratings (scale 0 - 4)**



Health = 3
 Fire = 1
 Reactivity = 0

• **HMIS-ratings (scale 0 - 4)**



Health = 3
 Fire = 1
 Reactivity = 0

• **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.

• **Dangerous components:**

	Proprietary amine	10-25%
	⚠ Skin Corr. 1B, H314	
	⚠ Skin Sens. 1, H317	

• **Additional information:**

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

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date July 13, 2017

Reviewed on July 13, 2017

Trade name: Valtron AD4015B

(Contd. of page 2)

4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
Supply fresh air; consult doctor in case of complaints.
Provide oxygen treatment if affected person has difficulty breathing.
- **After skin contact:**
Do not pull solidified product away from the skin.
Immediately rinse with water.
If skin irritation continues, consult a doctor.
Seek immediate medical help for blistering or open wounds.
- **After eye contact:**
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. Then 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**
Headache
Strong caustic effect on skin and mucous membranes.
Dizziness
Coughing
Nausea
Gastric or intestinal disorders
Allergic reactions
- **Danger**
Danger of gastric perforation.
Causes serious eye damage.
- **Indication of any immediate medical attention and special treatment needed**
Treat skin and mucous membrane with antihistamine and corticoid preparations.
If necessary oxygen respiration treatment.
Medical supervision for at least 48 hours.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
Water fog / haze
Fire-extinguishing powder
Foam
Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:**
Water stream.
Water spray
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date July 13, 2017

Reviewed on July 13, 2017

Trade name: Valtron AD4015B

(Contd. of page 3)

- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information** No further relevant information available.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
- **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.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
The product forms flammable fumes when heated.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Avoid storage near extreme heat, ignition sources or open flame.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Do not store together with oxidizing and acidic materials.
- **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.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date July 13, 2017

Reviewed on July 13, 2017

Trade name: Valtron AD4015B

(Contd. of page 4)

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:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **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.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
- **Engineering controls:** No further relevant information available.
- **Breathing equipment:**
Not necessary if room is well-ventilated.
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.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **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:**
Contact lenses should not be worn.



Safety glasses

- **Body protection:** Alkaline resistant protective clothing

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date July 13, 2017

Reviewed on July 13, 2017

Trade name: Valtron AD4015B

(Contd. of page 5)

• **Limitation and supervision of exposure into the environment**

No further relevant information available.

• **Risk management measures**

See Section 7 for additional information.

No further relevant information available.

9 Physical and chemical properties

• **Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

Form:	Liquid
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Color:	Yellow
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• Odor:	Sulphurous
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• Odor threshold:	Not determined.
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• pH-value:	Alkaline
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• **Change in condition**

Melting point/Melting range:	Undetermined.
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Boiling point/Boiling range:	>200 °C (>392 °F)
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• Flash point:	>149 °C (>300 °F)
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• Flammability (solid, gaseous):	Not applicable.
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• Auto-ignition temperature:	Not determined.
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• Decomposition temperature:	Not determined.
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• Auto igniting:	Product is not self-igniting.
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• Danger of explosion:	Product does not present an explosion hazard.
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• **Explosion limits:**

Lower:	Not determined.
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Upper:	Not determined.
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• Vapor pressure:	Not determined.
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• Density at 20 °C (68 °F):	1.134 g/cm ³ (9.463 lbs/gal)
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• Relative density	Not determined.
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• Vapour density	> 1 (AIR = 1)
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• Evaporation rate	< 1 (Butyl acetate = 1)
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• **Solubility in / Miscibility with**

Water:	Not miscible or difficult to mix.
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• Partition coefficient (n-octanol/water):	Not determined.
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• **Viscosity:**

Dynamic:	Not determined.
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Kinematic:	Not determined.
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(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date July 13, 2017

Reviewed on July 13, 2017

Trade name: Valtron AD4015B

Other information

No further relevant information available.

(Contd. of page 6)

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
To avoid thermal decomposition do not overheat.
- **Possibility of hazardous reactions**
Reacts with strong acids and oxidizing agents.
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
Sulfur oxides (SOx)
Nitrogen oxides (NOx)

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
Corrosive
Irritant
Danger through skin absorption.
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
Toxic and/or corrosive effects may be delayed up to 24 hours.
0 percent of the mixture consists of ingredient(s) of unknown toxicity.

- **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.
Inhalation.
Eye contact.

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date July 13, 2017

Reviewed on July 13, 2017

Trade name: Valtron AD4015B

(Contd. of page 7)

Skin contact.

- **Acute effects (acute toxicity, irritation and corrosivity):** Causes severe skin burns and eye damage.
- **Repeated Dose Toxicity:** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **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 product contains materials that are harmful to the environment.
- **Persistence and degradability** The product is partially biodegradable. Significant residuals remain.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** Does not accumulate in organisms
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
This statement was deduced from the properties of the single components.
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even small quantities leak into the ground.
- **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.
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, ADR, IMDG, IATA** UN2735

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date July 13, 2017

Reviewed on July 13, 2017

Trade name: Valtron AD4015B

(Contd. of page 8)

• 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
• ADRAmines, liquid, corrosive, n.o.s. (Mixed Dimethylamines)
2735 AMINES, LIQUID, CORROSIVE, N.O.S. (Mixed Dimethylamines)

• IMDG, IATA

AMINES, LIQUID, CORROSIVE, N.O.S. (Mixed Dimethylamines)

• Transport hazard class(es)

• DOT

• Class
• Label8 Corrosive substances
8

• ADR

• Class
• Label8 (C7) Corrosive substances
8

• IMDG, IATA

• Class
• Label8 Corrosive substances
8

• Packing group

• DOT, ADR, IMDG, IATA

III

• Environmental hazards:

• Marine pollutant:

No

• Special precautions for user

Warning: Corrosive substances

• Danger code (Kemler):

80

• EMS Number:

F-A,S-B

• Segregation groups

Alkalis

• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

• UN "Model Regulation":

UN2735, Amines, liquid, corrosive, n.o.s. (Mixed dimethylamines), 8, III

(Contd. on page 10)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date July 13, 2017

Reviewed on July 13, 2017

Trade name: Valtron AD4015B

(Contd. of page 9)

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):

None of the ingredients are listed.

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

• Proposition 65 (California)

• Chemicals known to cause cancer:

None of the ingredients are listed.

• Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

• Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

• Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

• Carcinogenic categories

• EPA (Environmental Protection Agency)

None of the ingredients is listed.

• IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

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

None of the ingredients is listed.

• 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%)

None of the ingredients is listed.

(Contd. on page 11)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date July 13, 2017

Reviewed on July 13, 2017

Trade name: Valtron AD4015B

(Contd. of page 10)

- **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 13, 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

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

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

- **Sources**

SDS Prepared by:

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