

Safety Data Sheet
according to 1907/2006/EC, Article 31


Printing date 02.02.2010

Revision: 28.01.2010

1 Identification of substance:

- **Product details:**
- **Trade name:** VALTRON® AD4010-A
- **Application of the substance / the preparation:** Epoxy coating
- **Manufacturer / Supplier:**
N. Bucher AG
Pfadackerstraße 9
CH-8957 Spreitenbach
Switzerland
Tel.: ++41-56 418 19 90
Fax: ++41-56 418 19 99
- **E-mail address of the competent person responsible for the Safety Data Sheet:** info@nbucherag.com
- **Informing department:** Sales
- **Emergency information:** As above or next toxicological information centre







2 Hazards identification

- **Hazard designation:**


Xi Irritant
N Dangerous for the environment
- **Information pertaining to particular dangers for man and environment**
R 36/38 Irritating to eyes and skin.
R 43 May cause sensitisation by skin contact.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Contains epoxy constituents. See information supplied by the manufacturer.
For use in industrial installations only
- **Classification system**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:**
Isobutane encapsulated in polymer

CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-01-8	Isobutane  F+; R 12	5-15%
CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8	Reaction product: Bisphenol-A-(Epichlorhydrine) Epoxy resin (number average molecular weight ≤ 700)  Xi,  N; R 36/38-43-51/53	25-50%
	Hydrocarbons  Xn; R 65	2.5-10%
	alkylphenolethoxylate  Xi,  N; R 36/38-51/53	< 2.5%

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CAS: 41638-13-5	Polypropylene glycol diglycidyl ether ☒ Xi; R 36/38-43-52/53	< 2.5%
CAS: 75-35-4 EINECS: 200-864-0 Index number: 602-025-00-8	1,1-dichloroethylene Carc. Cat. 3; ☒ Xn, ☒ F+; R 12-20-40	< 1%

· **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information:** Immediately remove any clothing contaminated by the product.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor.
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact:**
Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Seek medical treatment.

5 Fire fighting measures

- **Suitable extinguishing agents**
Carbon dioxide (CO₂), extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards caused by the material, its products of combustion or flue gases:**
Hydrogen chloride (HCl)
Carbon monoxide (CO) and Carbon dioxide (CO₂)
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation.
Wear protective equipment. Keep unprotected persons away.
Use breathing protection against the effects of fumes/dust/aerosol.
Avoid skin and eye contact.
- **Measures for environmental protection:**
Do not allow to enter drainage system, surface or ground water.
Inform respective authorities in case product reaches water or sewage system.
- **Measures for cleaning/collecting:**
Ensure adequate ventilation.
Collect mechanically.
Absorb liquid components with liquid-binding material.
Dispose of the material collected according to regulations.

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7 Handling and storage

- **Handling**
- **Information for safe handling:**
 - Ensure good ventilation/exhaustion at the workplace.
 - Avoid breathing vapours.
 - Avoid skin and eye contact.
 - Make sure that all applicable workplace limits are observed.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and containers:**
 - Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:**
 - Do not store together with oxidizing and acidic materials.
 - Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:**
 - Store in cool, dry conditions in well sealed containers.
 - Store container in a well ventilated position.

8 Exposure controls and personal protection

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

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

75-35-4 1,1-dichloroethylene

WEL (Great Britain) Long-term value: 40 mg/m³, 10 ppm

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
 - Keep away from foodstuffs, beverages and food.
 - Instantly remove any contaminated garments.
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the eyes and skin.
 - Wash hands during breaks and at the end of the work.
- **Breathing equipment:**
 - If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.
- **Protection of hands:**
 - Protective gloves
 - To avoid skin problems reduce the wearing of gloves to the required minimum.
 - Check the permeability prior to each renewed use of the glove.
 - 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**
 - Neoprene gloves
 - Product can penetrate 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.
- **As protection from splashes gloves made of the following materials are suitable:** Neoprene gloves
- **Eye protection:** Tightly sealed safety glasses

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· **Body protection:** Protective work clothing**9 Physical and chemical properties:**· **General Information**

Form: highly viscous
Colour: white
Smell: mild

· **Change in condition**

Melting point/Melting range: not determined
Boiling point/Boiling range: not determined

· **Flash point:** not applicable· **Self-inflammability:** Product is not selfigniting.· **Danger of explosion:** Product is not explosive.· **Density at 20°C** 1.03 g/cm³· **Solubility in / Miscibility with**

Water: insoluble

10 Stability and reactivity· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.· **Materials to be avoided:**

Strong oxidizing agents
Alkaline materials

· **Dangerous reactions** No dangerous reactions known.· **Dangerous products of decomposition:**

Hydrogen chloride (HCl)
Carbon monoxide (CO) and Carbon dioxide (CO₂)
Poisonous gases/vapours

11 Toxicological information· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:**

25068-38-6 Reaction product: Bisphenol-A-(Epichlorhydrine) Epoxy resin (number average molecular weight ≤ 700)

Oral	LD50	11400 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)

· **Primary irritant effect:**· **on the skin:** Irritant for skin and mucous membranes.· **on the eye:** Irritant effect· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant

Sensitising

· **Sensitisation** May cause sensitisation by skin contact.

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12 Ecological information:

- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Toxic for aquatic organisms

13 Disposal considerations

- **Product:**
- **Recommendation** Disposal must be made according to official regulations.
- **European waste catalogue:**
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border):**



- **ADR/RID Class:** 9 (M6) Miscellaneous dangerous substances and articles.
- **Kemler Number:** 90
- **UN-Number:** 3082
- **Packaging group:** III
- **Label:** 9
- **Special marking:** Symbol (fish and tree)
- **Designation of goods:** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: Bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight ≤ 700))
- **Limited quantities (LQ):** LQ7
- **Transport category:** 3
- **Tunnel restriction code:** E

- **Maritime transport IMDG-Code:**



- **IMDG Class:** 9
- **UN Number:** 3082
- **Label:** 9
- **Packaging group:** III
- **EMS Number:** F-A,S-F
- **Correct technical name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: Bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight ≤ 700))

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· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 9
- **UN/ID Number:** 3082
- **Label:** 9
- **Special marking:** Symbol (fish and tree)
- **Packaging group:** III
- **Correct technical name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: Bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight ≤ 700))

· **Transport/Additional information:** Transport by post may be prohibited or restricted.

15 Regulatory information

· **Designation according to EC guidelines:**
The product has been classified/labelled in accordance with EC Directives / relevant national laws.

· **Code letter and hazard designation of product:**



Xi Irritant
N Dangerous for the environment

· **Hazard-determining components of labelling:**
Reaction product: Bisphenol-A-(Epichlorhydrine) Epoxy resin (number average molecular weight ≤ 700)
Polypropylene glycol diglycidyl ether

· **Risk phrases:**

- 36/38 Irritating to eyes and skin.
- 43 May cause sensitisation by skin contact.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Safety phrases:**

- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 28 After contact with skin, wash immediately with plenty of soap and water.
- 36/37 Wear suitable protective clothing and gloves.
- 57 Use appropriate container to avoid environmental contamination.
- 60 This material and its container must be disposed of as hazardous waste.

· **Special designation of certain preparations:**

Contains epoxy constituents. See information supplied by the manufacturer.
For use in industrial installations only

· **National regulations**

· **Information about limitation of use:** Employment restrictions concerning young persons must be observed.

· **Decree to be applied in case of technical fault:**

Quantity limits according to "EC Seveso directive" should be observed.

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water

· **Other regulations, limitations and prohibitive regulations**

Observe restrictions on the marketing and use according to Annex XVII of Regulation (EC) No 1907/2006.

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May not be used placed on the market for sale to the general public and/or used in diffusive applications.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Reasons for changes:**

*The Material Safety Data Sheet has been revised. Changes in the respective chapters are characterized in the left side edge by *.*

· **Relevant R-phrases:**

The(se) R-phrase(s) are those of the ingredient(s) and do(es) not necessarily represent the classification of the preparation.

12 *Extremely flammable.*

20 *Harmful by inhalation.*

36/38 *Irritating to eyes and skin.*

40 *Limited evidence of a carcinogenic effect.*

43 *May cause sensitisation by skin contact.*

51/53 *Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

52/53 *Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

65 *Harmful: may cause lung damage if swallowed.*

· **Department issuing MSDS:**

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· * **Data compared to the previous version altered.**