

**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® AD4110-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

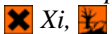

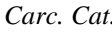
**2 Hazards identification**

- **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: 28064-14-4	Reaction product of epichlorhydrine and phenol-formaldehyde  Xi, N; R 36/38-43-51/53	50-100%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-01-8	Isobutane  F+; R 12	5 - 15%
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.

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## 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 (CO<sub>2</sub>), 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:**  
Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)  
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.

## 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.

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· **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/m<sup>3</sup>, 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  
Nitrile rubber - NBR  
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

· **Body protection:** Protective work clothing

## 9 Physical and chemical properties:

· **General Information**

<b>Form:</b>	highly viscous
<b>Colour:</b>	milky white
<b>Smell:</b>	mild

· **Change in condition**

**Melting point/Melting range:** not determined

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**Boiling point/Boiling range:** not determined· **Flash point:** > 93°C· **Self-inflammability:** Product is not selfigniting.· **Danger of explosion:** Product is not explosive.· **Density at 20°C** 1.056 g/cm<sup>3</sup>· **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:**
  - Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)
  - Poisonous gases/vapours

## 11 Toxicological information

· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:****28064-14-4 Reaction product of epichlorhydrine and phenol-formaldehyde**

Oral LD50 &gt; 2000 mg/kg (rat)

Dermal LD50 &gt; 2000 mg/kg (rabbit)

· **Primary irritant effect:**· **on the skin:** Irritant for skin and mucous membranes.· **on the eye:** Irritant effect· **Sensitization:** Sensitization possible by skin contact.· **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.

## 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.

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- **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 of epichlorhydrine and phenol-formaldehyde)
- **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 of epichlorhydrine and phenol-formaldehyde)

- **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 of epichlorhydrine and phenol-formaldehyde)

- **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.

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



*Xi Irritant*  
*N Dangerous for the environment*

· **Hazard-determining components of labelling:**

*Reaction product of epichlorhydrine and phenol-formaldehyde*

· **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.*  
*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-phrases 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.*

· **Department issuing MSDS:**

*C.S.B. GmbH Phone: +49 - 2151 - 652086-0*  
*Parkstraße 29 Fax: +49 - 2151 - 652086-9*  
*D-47829 Krefeld*  
*Germany*

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