

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® AD1360-A
- **Application of the substance / the preparation:** Epoxy resin adhesive
- **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.
- **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:**

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	50-100%
CAS: 13463-67-7 EINECS: 236-675-5	Titanium(IV)-oxide	< 2.5%
CAS: 112945-52-5 EINECS: 231-545-4	Synthetic amorphous silica, fumed	< 2.5%
CAS: 64742-95-6 EINECS: 265-199-0 Index number: 649-356-00-4	Solvent naphtha (petroleum), light arom.  Xn,  Xi,  N; R 10-37-51/53-65	< 2.5%
CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO ₂)	2.5-10%
CAS: 12001-26-2 EINECS: 310-127-6	Mica	2.5-10%

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· **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 if symptoms persist.
- **After skin contact:**
Instantly wash with water and soap and rinse thoroughly.
Seek medical treatment.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing:**
Drink copious amounts of water and provide fresh air. Instantly call for doctor.
Do not induce vomiting; instantly call for medical help.

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:**
Formation of toxic gases is possible during heating or in case of fire.
Carbon monoxide (CO) and Carbon dioxide (CO₂)
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**
Cool endangered containers with water spray jet.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
If without risk possible, move drums with material away from dangerous area.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation.
Wear protective equipment. Keep unprotected persons away.
Avoid skin and eye contact.
Avoid breathing dust.
- **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.
Do not breathe dust.
Avoid skin and eye contact.

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- **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:**
Respirable dusts may only be liberated after drying, but not from the product as delivered.

12001-26-2 Mica

WEL (Great Britain)	Long-term value: 10* 0.8** mg/m ³ *total inhalable **respirable
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13463-67-7 Titanium(IV)-oxide

WEL (Great Britain)	Long-term value: 10* 4** mg/m ³ *total inhalable **respirable
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- **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 breathe dust.
Avoid contact with the eyes and skin.
Wash hands during breaks and at the end of the work.
- **Breathing equipment:** Use breathing protection in case of dust formation.
- **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.
For the permanent contact no recommendation for a suitable glove material can be given.
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
Gloves made of these materials are suitable only as protection from splashes.
Product can penetrate gloves.
Immediately remove any gloves contaminated by the product.
- **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
Nitrile rubber - NBR
- **Eye protection:** Tightly sealed safety glasses

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· **Body protection:** Protective work clothing

9 Physical and chemical properties:

· General Information

Form:	liquid highly viscous pasty
Colour:	white
Smell:	weak/faint characteristic

· Change in condition

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

· **Flash point:** > 154°C

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· **Vapour pressure at 20°C:** < 0.13 hPa

· **Density at 20°C** 1.2 g/cm³

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· Materials to be avoided:

Strong oxidizing agents
Alkaline materials
Strong acids

· **Dangerous reactions** Reacts with acids, alkalis and oxidizing agents.

· Dangerous products of decomposition:

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
 · **Sensitization:** Sensitization possible by skin contact.

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- **Subacute to chronic toxicity:**
The product contains quartz.
Quartz is classified as carcinogenic by IARC and by the Senatskommission der DFG. This classification, however, is controverse and has been accepted neither by OSHA nor by EC.
- **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**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
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 \leq 700))
- **Limited quantities (LQ):** LQ27
- **Transport category:** 3
- **Tunnel restriction code:** E

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· 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))

· 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)· **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:**

- 24 Avoid contact with skin.
- 28 After contact with skin, wash immediately with plenty of soap and water.
- 37/39 Wear suitable gloves and eye/face protection.
- 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

· **Special designation of certain preparations:**

Contains epoxy constituents. See information supplied by the manufacturer.

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- **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

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.
 - 10 Flammable.
 - 36/38 Irritating to eyes and skin.
 - 37 Irritating to respiratory system.
 - 43 May cause sensitisation by skin contact.
 - 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - 65 Harmful: may cause lung damage if swallowed.
- **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.**

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