

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® AD4017-B
- **Application of the substance / the preparation:** Hardening agent / Curing agent
- **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:** void
- **Information pertaining to particular dangers for man and environment** void

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	10-25%
EINECS: 202-013-9	☒ Xn, ☒ Xi; R 22-36/38	
Index number: 603-069-00-0		

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

4 First aid measures

- **General information:** Remove contaminated clothing.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- **After skin contact:**
Wash with soap and water.
If skin irritation continues, consult a doctor.
- **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.

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- **Special hazards caused by the material, its products of combustion or flue gases:**
 - Nitrogen oxides (NO_x)
 - Sulphur oxides (SO_x)
 - Carbon monoxide (CO) and Carbon dioxide (CO₂)
 - Irritant gases/vapours
 - Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**
 - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Person-related safety precautions:**
 - Ensure adequate ventilation.
 - Wear protective equipment. Keep unprotected persons away.
 - Do not breathe vapours.
 - Avoid skin and eye contact.
- **Measures for environmental protection:** Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
 - Ensure adequate ventilation.
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - 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.
- **Information about protection against explosions and fires:**
 - Keep ignition sources away - Do not smoke.
 - Protect from heat.
- **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:**
 - 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 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.

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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:** Use breathing protection in case of insufficient ventilation.

· **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

Immediately remove any gloves contaminated by the product.

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

Form:	liquid viscous
Colour:	light yellow amber
Smell:	sulphurous

· Change in condition

Melting point/Melting range: not determined

Boiling point/Boiling range: not determined

· **Flash point:** > 149°C

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

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

· **Density at 20°C** 1.13 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 according to specifications.

· **Materials to be avoided:**

Strong oxidizing agents

Alkaline materials

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

· **Dangerous products of decomposition:**

Nitrogen oxides (NO_x)

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Sulphur oxides (SO_x)
Carbon monoxide (CO) and Carbon dioxide (CO₂)
Poisonous gases/vapours
Irritant gases/vapours

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

Oral	LD50	1200 mg/kg (rat)
Dermal	LD50	1280 mg/kg (rabbit)

- **Primary irritant effect:**

- **on the skin:** Slightly irritating

- **on the eye:** Weak irritating effect

- **Sensitization:** No sensitizing effect known.

- **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

- **General notes:** Water danger class 3 (Self-assessment): extremely hazardous for water.

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:** -

- **Maritime transport IMDG-Code:**

- **IMDG Class:** -

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



- **ICAO/IATA Class:** 9

- **UN/ID Number:** 3334

- **Label:** 9

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- **Correct technical name:** AVIATION REGULATED LIQUID, N.O.S. (mercaptan-terminated epoxy curing agent)

15 Regulatory information

- **Designation according to EC guidelines:** Observe all safety regulations when handling chemicals.
- **Special designation of certain preparations:**
Safety data sheet available for professional user on request.
- **National regulations**
- **Decree to be applied in case of technical fault:** -
- **Water hazard class:** Water danger class 3 (Self-assessment): extremely 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 represent the classification of the preparation.
22 Harmful if swallowed.
36/38 Irritating to eyes and skin.
- **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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