

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

Printing date 02.02.2010

Revision: 02.02.2010

**1 Identification of substance:**

- **Product details:**
- **Trade name:** VALTRON® AD1810-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:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment**  
R 36/38 Irritating to eyes and skin.
- **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: 90-72-2 EINECS: 202-013-9 Index number: 603-069-00-0	2,4,6-tris(dimethylaminomethyl)phenol ☒ Xn, ☒ Xi; R 22-36/38	10-25%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7	2-Methoxy-1-methylethyl acetate ☒ Xi; R 10-36	2.5-10%
CAS: 79-09-4 EINECS: 201-176-3 Index number: 607-089-00-0	Propionic acid ☒ C; R 34	< 2.5%

- **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.

(Contd. on page 2)

# Safety Data Sheet

## according to 1907/2006/EC, Article 31

Printing date 02.02.2010

Revision: 02.02.2010

**Trade name: VALTRON® AD1810-B**

(Contd. of page 1)

- **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:**  
Drink copious amounts of water and provide fresh air. Instantly call for doctor.  
Do not induce vomiting!

### 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:**  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides (SO<sub>x</sub>)  
Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)
- **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.  
Do not breathe vapours.  
Avoid skin and eye contact.  
Wear protective equipment. Keep unprotected persons away.
- **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).  
Send for recovery or disposal in suitable containers.  
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:**  
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.

(Contd. on page 3)

# Safety Data Sheet

## according to 1907/2006/EC, Article 31

Printing date 02.02.2010

Revision: 02.02.2010

Trade name: VALTRON® AD1810-B

(Contd. of page 2)

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:**

#### 108-65-6 2-Methoxy-1-methylethyl acetate

WEL (Great Britain)	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk
---------------------	--

IOELV (European Union)	Short-term value: 550 mg/m <sup>3</sup> , 100 ppm Long-term value: 275 mg/m <sup>3</sup> , 50 ppm Skin
------------------------	--

#### 79-09-4 Propionic acid

WEL (Great Britain)	Short-term value: 46 mg/m <sup>3</sup> , 15 ppm Long-term value: 31 mg/m <sup>3</sup> , 10 ppm
---------------------	---

IOELV (European Union)	Short-term value: 62 mg/m <sup>3</sup> , 20 ppm Long-term value: 31 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.

Do not eat, drink or smoke while working.

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.

Use skin protection cream for preventive skin protection.

· **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

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.

Protective gloves should be replaced at first signs of wear.

· **As protection from splashes gloves made of the following materials are suitable:**

Neoprene gloves

Natural rubber - NR

· **Eye protection:** Tightly sealed safety glasses

(Contd. on page 4)

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 02.02.2010

Revision: 02.02.2010

Trade name: VALTRON® AD1810-B

(Contd. of page 3)

- **Body protection:**  
Protective work clothing  
Protective clothing should be selected specifically for the working place.

## 9 Physical and chemical properties:

### · General Information

<b>Form:</b>	liquid viscous
<b>Colour:</b>	orange
<b>Smell:</b>	like rotten eggs (mercaptans)

### · Change in condition

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

- |  |                                  |
|--|----------------------------------|
| · <b>Flash point:</b>                            | > 100°C                          |
| · <b>Self-inflammability:</b>                    | Product is not selfigniting.     |
| · <b>Danger of explosion:</b>                    | Product is not explosive.        |
| · <b>Density at 20°C</b>                         | 1.50 g/cm <sup>3</sup>           |
| · <b>Solubility in / Miscibility with Water:</b> | 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<sub>x</sub>)  
Sulphur oxides (SO<sub>x</sub>)  
Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)

## 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:** Irritating for the skin  
· **on the eye:** Irritant effect
- **Sensitization:** No sensitizing effect known.
- **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:

(Contd. on page 5)

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

Printing date 02.02.2010

Revision: 02.02.2010

Trade name: VALTRON® AD1810-B

Irritant

(Contd. of page 4)

**12 Ecological information:**

- **Information about elimination (persistence and degradability):**
- **Other information:** The product is slightly biodegradable.
- **General notes:** Water hazard class 1 (Self-assessment): slightly 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
- **Correct technical name:** AVIATION REGULATED LIQUID, N.O.S. (Pentaerythritol polypropoxylate with thioglycerol)

**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

- **Risk phrases:**  
36/38 Irritating to eyes and skin.
- **Safety phrases:**  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

(Contd. on page 6)

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

Printing date 02.02.2010

Revision: 02.02.2010

Trade name: VALTRON® AD1810-B

(Contd. of page 5)

37 Wear suitable gloves.

· **National regulations**· **Information about limitation of use:** Employment restrictions concerning young persons must be observed.· **Decree to be applied in case of technical fault:** -· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly 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.

22 Harmful if swallowed.

34 Causes burns.

36 Irritating to eyes.

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.**

GB