

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® AD1265-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 / Technics
- **Emergency information:** As above or next toxicological information centre

2 Hazards identification

- **Hazard designation:**



C Corrosive

- **Information pertaining to particular dangers for man and environment**
R 34 Causes burns.
R 42/43 May cause sensitisation by inhalation and skin contact.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **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: 7727-43-7 EINECS: 231-784-4	Barium sulphate	25-50%
CAS: 98-54-4 EINECS: 202-679-0	4-tert-butylphenol ☒ Xi, ☒ N; R 36/37/38-51/53	10-25%
CAS: 25620-58-0 EINECS: 247-134-8	trimethylhexane-1,6-diamine ☒ C, ☒ Xn; R 22-34-43-52/53	10-25%
CAS: 1477-55-0 EINECS: 216-032-5	m-Xylylenediamine ☒ C, ☒ Xn; R 20/22-34-43-52/53	2.5-10%
CAS: 110-85-0 EINECS: 203-808-3 Index number: 612-057-00-4	piperazine Repr. Cat. 3; ☒ C, ☒ Xn; R 34-42/43-62-63	< 2.5%
CAS: 140-31-8 EINECS: 205-411-0 Index number: 612-105-00-4	2-Piperazin-1-ylethylamine ☒ C, ☒ Xn; R 21/22-34-43-52/53	< 2.5%

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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. Call a doctor immediately.
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact:**
Instantly wash with water and soap and rinse thoroughly.
Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
Use eye protection.
Call a doctor immediately.
- **After swallowing:**
Drink copious amounts of water and provide fresh air. Instantly call for doctor.
Do not induce vomiting - Danger of perforation!

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.
Nitrogen oxides (NO_x)
Sulphur oxides (SO_x)
Carbon monoxide (CO) and Carbon dioxide (CO₂)
Phenols
- **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:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
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.
Prevent material from reaching sewage system, holes and cellars.
- **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.

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7 Handling and storage

- **Handling**
- **Information for safe handling:**
 - Ensure good ventilation/exhaustion at the workplace.
 - Use only in well ventilated areas.
 - Prevent formation of aerosols.
 - Do not inhale vapours/aerosols.
 - Avoid skin and eye contact under any circumstances.
 - 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:** Not required.
- **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:**

7727-43-7 Barium sulphate

WEL (Great Britain)	Long-term value: 10* 4** mg/m ³ *inhalable dust **respirable dust
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110-85-0 piperazine

WEL (Great Britain)	Short-term value: 0.3 mg/m ³ Long-term value: 0.1 mg/m ³ Sen
IOELV (European Union)	Short-term value: 0.3 mg/m ³ Long-term value: 0.1 mg/m ³

- **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.
- **Breathing equipment:**
 - Filter A
 - 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
 - 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

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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**

Protective gloves should be replaced at first signs of wear.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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

· **Body protection:** Protective work clothing

9 Physical and chemical properties:

· **General Information**

Form:	liquid viscous
Colour:	green
Smell:	ammonia-like

· **Change in condition**

Melting point/Melting range: not determined

Boiling point/Boiling range: not determined

· **Flash point:** > 93.4°C

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

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

· **Density at 20°C** 1.2 g/cm³

· **Solubility in / Miscibility with**

Water: soluble

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

Strong acids

· **Dangerous reactions** Exothermic reaction with acids

· **Dangerous products of decomposition:**

Nitrogen oxides (NO_x)

Sulphur oxides (SO_x)

Carbon monoxide (CO) and Carbon dioxide (CO₂)

Poisonous gases/vapours

Phenols

Ammonia

Nitric acid

11 Toxicological information

· **Acute toxicity:**

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

98-54-4 4-tert-butylphenol

Oral	LD50	2951 mg/kg (rat)
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Dermal	LD50	2288 mg/kg (rabbit)
25620-58-0 trimethylhexane-1,6-diamine		
Oral	LD50	900 mg/kg (rat)
1477-55-0 m-Xylylenediamine		
Oral	LD50	1180 mg/kg (mouse) 980 - 1090 mg/kg (rat)
Dermal	LD50	2400 mg/kg (rabbit)
Inhalative	LC50/4 h	0.8 - > 1.42 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Corrosive to skin and mucous membranes.
- **on the eye:** Corrosive

- **Subacute to chronic toxicity:**

1477-55-0 m-Xylylenediamine

Oral	NOAEL (28 d)	150 mg/kg/d (rat)
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- **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:
Corrosive
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
Sensitising
- **Sensitisation** May cause sensitisation by inhalation and skin contact.

12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:** The product is slightly biodegradable.
- **Ecotoxicological effects:**

- **Aquatic toxicity:**

1477-55-0 m-Xylylenediamine

EC50/48 h	15.2 mg/l (water flea (daphnia magna))
EbC50/72 h	12 mg/l (algae (Scenedesmus subspicatus))
LC50/96 h	75 mg/l (leuciscus idus) 87.6 mg/l (oryzias latipes) > 100 mg/l (rainbow trout (oncorhynchus mykiss))

- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Harmful to 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.

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14 Transport information

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



- **ADR/RID Class:** 8 (C7) Corrosive substances.
- **Kemler Number:** 80
- **UN-Number:** 3267
- **Packaging group:** II
- **Label:** 8
- **Designation of goods:** UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (M-PHENYLENEBIS(METHYLAMINE), TRIMETHYLHEXAMETHYLENEDIAMINES)
- **Limited quantities (LQ):** LQ22
- **Transport category:** 2
- **Tunnel restriction code:** E

· **Maritime transport IMDG-Code:**



- **IMDG Class:** 8
- **UN Number:** 3267
- **Label:** 8
- **Packaging group:** II
- **EMS Number:** F-A,S-B
- **Correct technical name:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (M-PHENYLENEBIS(METHYLAMINE), TRIMETHYLHEXAMETHYLENEDIAMINES)

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



- **ICAO/IATA Class:** 8
- **UN/ID Number:** 3267
- **Label:** 8
- **Packaging group:** II
- **Correct technical name:** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (M-PHENYLENEBIS(METHYLAMINE), TRIMETHYLHEXAMETHYLENEDIAMINES)

· **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:**



C Corrosive

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

trimethylhexane-1,6-diamine
 m-Xylylenediamine
 piperazine
 2-Piperazin-1-ylethylamine

· **Risk phrases:**

34 Causes burns.
 42/43 May cause sensitisation by inhalation and skin contact.
 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Safety phrases:**

23 Do not breathe fumes/aerosol.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

· **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 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.

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.

· **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.

20/22 Harmful by inhalation and if swallowed.
 21/22 Harmful in contact with skin and if swallowed.
 22 Harmful if swallowed.
 34 Causes burns.
 36/37/38 Irritating to eyes, respiratory system and skin.
 42/43 May cause sensitisation by inhalation and skin contact.
 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.
 62 Possible risk of impaired fertility.
 63 Possible risk of harm to the unborn child.

· **Department issuing MSDS:**

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