

## Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.08.2007

Revision: 30.05.2007

### 1 Identification of substance

- **Product details**
- **Trade name** Adolit M
- **Article number:** 2100
- **Application of the substance / the preparation** Wood preservatives
- **Manufacturer/Supplier:**  
Remmers Baustofftechnik GmbH  
Postfach 1255  
D-49624 Lönningen / Germany  
Tel.: 05432/83-0  
Fax: 05432/3985
- **Informing department:**  
Product Safety department: Tel.: +49 (0)5432/83-138/-538  
E-Mail: sales@remmers.co.uk
- **Emergency information:**  
during working hours:  
U.K.: Tel.: +44 (0) 845 373 0103  
Far East: Tel.: +65( 0) 67410277  
Head Office Germany: Tel.: +49 (0)5432 83 185  
after working hours: Tel.: +49 (0)171/6428-297

### 2 Hazards identification

- **Hazard designation:**



C Corrosive

- **Information pertaining to particular dangers for man and environment**  
R 34 Causes burns.
- **Classification system**  
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

### 3 Composition/information on ingredients

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

- **Dangerous components:**

CAS: 68424-85-1 EINECS: 270-325-2	Alkyl dimethyl benzyl ammonium chloride C, Xn, N; R 22-34-50	10-<20%
CAS: 10043-35-3 EINECS: 233-139-2	boric acid, crude natural, containing not more than 85 per cent of H3BO3 calculated on the dry weight	5-<10%

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

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**4 First aid measures****· General information**

If symptoms occur or in case of doubt, seek medical attention. In case of unconsciousness, do not administer anything orally.

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest, provide artificial respiration.

**· After inhalation**

Take affected persons into the open air and position comfortably

Seek medical treatment in case of complaints.

**· After skin contact**

Wash immediately 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.

Do not induce vomiting; call for medical help immediately.

**· Information for doctor****· Treatment** symptomatic treatment**5 Fire fighting measures****· Suitable extinguishing agents**

Water

all suitable

**· Special hazards caused by the material, its products of combustion or flue gases:**

May be released in case of fire

Carbon monoxide (CO)

Carbon dioxide

Nitrogen oxides (NO<sub>x</sub>)

Hydrogen chloride (HCl)

Nitrous gases

Under certain fire conditions, traces of other toxic substances cannot be excluded.

**· Protective equipment:**

Wear self-contained breathing apparatus.

Wear chemical protective clothing.

**6 Accidental release measures****· Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

**· Measures for environmental protection:**

Do not allow product to reach sewage system or water bodies.

Do not allow to enter the ground/soil.

**· Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

Ensure adequate ventilation.

**7 Handling and storage****· Handling****· Information for safe handling:**

Use only in well ventilated areas.

Avoid the formation of aerosols.

Open and handle container with care.

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- **Information about protection against explosions and fires:** The product is not flammable
- **Storage**
- **Requirements to be met by storerooms and containers:** Store only in the original container.
- **Information on storage in a common storage facility:** Store away from food.
- **Further information about storage conditions:**  
Store cool and dry in tightly closed containers.  
Store container in a well ventilated position.  
Protect from frost.  
Do not store under 5°C.  
Protect from heat and direct sunlight.

## 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with limit values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during compilation were used as a basis.
- **Personal protective equipment**
- **General protective and hygienic measures**  
Immediately remove soiled, saturated clothing.  
Keep away from food, beverages and animal feed.  
Do not eat, drink or smoke while working.  
Store protective clothing separately.  
Use skin protection cream for preventive skin protection.  
Wash hands before pauses and after work.  
Avoid contact with eyes and skin.  
Do not inhale gases / vapours / aerosols.
- **Respiratory equipment:**  
In case vapours/aerosols develop:  
Filter P2.  
In case of brief exposure or low pollution load, use respiratory protection equipment with filter. In case of intensive or longer exposure, use self-contained respiratory protection equipment.
- **Protection of hands:** Impervious gloves
- **Material of gloves**  
Butyl rubber, BR  
Nitrile rubber, NBR
- **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.
- **Eye protection:**  
Tightly sealed safety glasses.  
if there is a risk of splashes
- **Body protection:** Protective work clothing.

## 9 Physical and chemical properties:

### · General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	Light yellow
<b>Odour:</b>	Weak, characteristic

### · Change in condition

**Melting point/Melting range:** Not determined

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<b>Boiling point/Boiling range:</b>	100°C
· <b>Flash point:</b>	Not applicable
· <b>Self-inflammability:</b>	Product is not self-igniting.
· <b>Danger of explosion:</b>	Product is not explosive.
· <b>Density at 20°C</b>	ca. 1.04 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with Water:</b>	Fully miscible
· <b>pH-value at 20°C:</b>	7 - 8
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.  
No decomposition if handled and stored according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous decomposition products:**  
May be released in fire:  
By heating higher than decomposition temperature:  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen chloride (HCl)  
Nitrous vitriol gases  
as well as other toxic gases and vapours.

## 11 Toxicological information

- **Acute toxicity:**

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

**68424-85-1 Alkyl dimethyl benzyl ammonium chloride**

Oral	LD50	240 mg/kg (Ratte)
Dermal	LD50	1560 mg/kg (Ratte)

- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Caustic effect
- **Additional toxicological information:**  
The product shows the following dangers based on the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:  
Corrosive

## 12 Ecological information:

- **Information on elimination (persistence and degradability):**
- **Other information:**  
Data for alkyldimethylbenzylammoniumchloride: 1)  
Biological etiminability:  
50 - 100% Method: (BOD30:COD)x100  
50 - 100% Method: Test method Zahn-Wellens (OECD 302B)  
TOC value: 327 mg/g  
COD value: 1100 mg/g

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- **Ecotoxicological effects:**
- **Aquatic toxicity:**
- **Type of test Effective concentration Method Assessment**  
Data for alkyldimethylbenzyl ammonium chloride: 1)  
Brachydanio rerio LC-50: 1 - 10 mg/l/96 h
- **Behaviour in sewage processing plants:**
- **Type of test Effective concentration Method Assessment**  
Data for alkyldimethylbenzyl ammonium chloride: 1)  
Inhibition of waste water bacteria activity:  
50% - inhibition effects: 10 - 100 mg/l  
Test method: respiration inhibition of activated sludge organisms according to D. Brown et al.,  
Chemosphere, 10(3), 245-261 (1981), corresponds to OECD Guideline 209.
- **Other information:** 1) : Examinations by Bayer AG
- **General notes:**  
Water danger class 3 : extremely hazardous to water.  
Do not allow product to reach ground water, bodies of water or sewage system.  
according to appendix 4 VwVwS

## 13 Notes on disposal:

- **Product:**
- **Recommendation**  
Do not dispose of together with household garbage. Do not allow product to reach sewage system.  
Must be specially treated in compliance with official regulations.

### European waste catalogue

03 00 00	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 02 00	wastes from wood preservation
03 02 04	inorganic wood preservatives

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**



- **ADR/RID-GGVS/E Class:** 8 (C9) Corrosive substances.
- **Kemler Number:** 80
- **UN-Number:** 1760
- **Packaging group:** III
- **Danger sign:** 8
- **Designation of goods:** 1760 CORROSIVE LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides)
- **Limited quantities (LQ)** LQ7
- **Tunnel restriction code** E
- **Remarks:** TREM-Card No. 83

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· **Maritime transport IMDG/GGVSea:**



- **IMDG/GGVSea Class:** 8
- **UN Number:** 1760
- **Label** 8
- **Packaging group:** III
- **EMS Number:** F-A,S-B
- **Marine pollutant:** -
- **Correct technical name:** CORROSIVE LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides)

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



- **ICAO/IATA Class:** 8
- **UN/ID Number:** 1760
- **Label** 8
- **Packaging group:** III
- **Correct technical name:** CORROSIVE LIQUID, N.O.S. (Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides)

## 15 Regulatory information

· **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Guidelines / Ordinance on Hazardous Materials (GefStoffV)

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



C Corrosive

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

Alkyl dimethyl benzyl ammonium chloride

· **Risk phrases:**

34 Causes burns.

· **Safety phrases:**

- 2 Keep out of the reach of children.
- 13 Keep away from food, drink and animal feedingstuffs.
- 20/21 When using do not eat, drink or smoke.
- 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.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

· **Product Code:** HSM-LB 15

· **National regulations**

· **Water hazard class:**

Water danger class 3: extremely hazardous to water.  
according to appendix 4 VwVwS

· **Other regulations, limitations and prohibition ordinances**

According to the Federal Institute for Sanitary Consumer Protection and Veterinary Medicine (BgVV):  
Requirements/restrictions:

Do not use on masonry work that could come in direct contact with food and animal feed.

Only for use in specialist firms.

Render or other facing material must be applied to treated masonry work on the side towards living spaces

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and rooms where people gather.

Agents for controlling fungus in masonry work contain biocidal ingredients. They should only be used according to directions and only in the areas approved for application. Misuse may harm your health and the environment.

Special provisions on the "General Building Inspectorate Approval" issued by the German Institute of Building Technology:

This fungus inhibitor contains biocidal ingredients. It should only be used when control measures against house fungus in masonry work are necessary.

This fungus inhibitor may only be used in areas where house fungus has infested masonry work and cannot be controlled by any other practical manner (see DIN 68 800-4, especially section 2).

The fungus inhibitor may not be used on masonry work that will come in direct contact with food or animal feed.

Render or other finishing material must be applied to treated masonry work on the side towards living spaces/rooms where people gather.

Control measures may only be executed by experienced specialists (for proof of qualification, see Ordinance on Hazardous Materials (GefStoffV)).

Active Ingredients: 20.2 % dimethylbenzyl-alkyl (C12-C14) ammonium chloride  
12.0 % polyboron

· **Professional Association (BG) Code of Practice:** M 004 "Irritating substances/corrosive substances"

## 16 Other information:

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship.

Delivery specifications are found in the respective Technical Information Sheets.

· **Relevant R-phrases**

22 Harmful if swallowed.

34 Causes burns.

50 Very toxic to aquatic organisms.

· **Department issuing data specification sheet:** Product Safety department

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