

Date of issue: 31.01.2008 Replaces Data Sheet of : 22.03.2007

\*\*\* alterations as compared to previous version; n.ap. = not applicable; n.av. = not available



## 1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

### 1.1 Identification of Substance or Preparation

Trade Name : R410- Component B

Article No. : n.av.

Preparation No. : n.av.

Registration No. : n.av.

### 1.2 Use of the substance / preparation:

Primer

### 1.3 Company / Undertaking Identification

#### 1.3.1 Address of the Company / Supplier:

Bona GmbH, Jahnstraße 12, D - 65549 Limburg

Telephone : +49-6431-4008-0, Fax : +49-6431-4008-25, e-mail: n.av.

#### 1.3.2 Responsible :

Chemie &amp; Vorschrift, Kannheideweg 35, D-53123 Bonn-Duisdorf; E-Mail: info[at]chemie-vorschrift.de

### 1.4 Emergency - Telephone

Information Centre Specialising in Symptoms of Poisoning

Telephone : +49 - 761 - 19 240

Emergency - Telephone of Company / Undertaking

Telephone : +49-6431-4008-0 (08:30 - 16:30)

## 2 HAZARDS IDENTIFICATION

### 2.1 For Humans (additional information is given under item 11) :

Harmful. Harmful by inhalation and if swallowed.

Causes burns. May cause sensitization by skin contact.

### 2.2 For the Environment :

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 2.3 For Materials:

Do not use containers made of .? Plastic material, including expanded plastics material

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Chemical Characterisation:

Mixture of synthetic resin and additives

### 3.2 Dangerous Ingredients:

CAS - No.	Index - No.	EEC - No.	Material	m% - range	Symbol	R - phrases
100-51-6	603-057-00-5	202-859-9	benzyl alcohol	25 - 50%	Xn	R 20/22
2855-13-2	612-067-00-9	220-666-8	3-Aminomethyl-3,5,5-trimethylcyclohexylamine	10 - 25%	C	R 21/22-34-43-52/53
1477-55-0	n.av.	216-032-5	m-phenylenebis(methylamine)	2,5 - 10%	C	R 20/21/22-34-43-52/53

Remarks: Classification and labelling of a product is indicated under item 15.

## 4 FIRST AID MEASURES

### 4.1 Inhalation:

Move out of dangerous area.

Move to fresh air. If symptoms persist, call a physician.

### 4.2 Skin Contact :

Wash off with soap and water.

If symptoms persist, call a physician.

### 4.3 Eye Contact :

Call a physician immediately.

Rinse immediately with plenty of water, also under the eyelids.

### 4.4 Ingestion :

Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting.

Consult a physician if necessary.

### 4.5 Note to Physician:

Treat symptomatically.

Risk of product entering the lungs on vomiting after ingestion.

### 4.6 Special Equipment:

n.av.

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**5 FIRE FIGHTING MEASURES**

- 5.1 **Suitable Extinguishing Media :** Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam.
- 5.2 **Extinguishing Media to Avoid :** high volume water jet
- 5.3 **Fire and Explosion Hazards :**  
In the event of fire nitrogen oxides (NO<sub>x</sub>), carbon oxides may be formed. Burning produces irritant fumes.
- 5.4 **Special Protective Equipment :**  
Wear positive pressure self-contained breathing apparatus.  
Wear full protective clothing.
- 5.5 **Additional Information :** In the event of fire, cool tanks with water spray.

**6 ACCIDENTAL RELEASE MEASURES**

- 6.1 **Personal Precautions :**  
See No. 8.3 Personal Protective Equipment. Ensure adequate ventilation.
- 6.2 **Environmental Precautions and Methods for Cleaning up :**  
Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Soak up with inert absorbent material.
- 6.3 **Further Information :** None.

**7 HANDLING AND STORAGE** (For national regulations refer to item 15.2)

- 7.1 **Handling**
  - 7.1.1 **Precautions for Safe Handling :**  
Keep at temperature not exceeding 40°C. Use only in well-ventilated areas. Keep container tightly closed.
  - 7.1.2 **Precautions in Case of Fire and Explosion :**  
No special precautions required.
- 7.2 **Storage**
  - 7.2.1 **Storage Instructions :**  
Keep in a dry, cool place.
  - 7.2.2 **Store away from :**  
Do not store together with oxidizing agents.
  - 7.2.3 **Further Information on Storage Conditions :**  
Keep in a well-ventilated place.
- 7.3 **Specific use(s):**

**8 Exposure Controls and Personal Protection**

- 8.1 **Exposure limit values :**

<b>Material</b>	<b>Limit Value :</b>
m-phenylenebis(methylamine)	TWL 0,1 mg/m <sup>3</sup>
- 8.2 **Exposure controls**
  - 8.2.1 **Occupational exposure controls:**  
Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist. When using, do not eat, drink or smoke. Take off all contaminated clothing immediately.
  - 8.2.1a **Respiratory Protection :** In case of insufficient ventilation wear suitable respiratory equipment.  
Short term only Filter A
  - 8.2.1b **Hand Protection :** protective gloves (Viton, t > 120 min.)
  - 8.2.1c **Eye Protection :** tightly fitting safety goggles
  - 8.2.1d **Skin Protection :** protective suit
  - 8.2.1e **Further Information :** Refer to special restrictions in wearing protective equipment
  - 8.2.2 **Environmental exposure controls:** n.av.

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9.2.1 pH-value, undiluted : n.av., pH-value, 1% aqueous solution : n.av.  
 9.2.2 Boiling point / Boiling - range (°C) : > 200, Melting point / Melting range (°C) : n.av.  
 9.2.3 Flash point (°C, c.c.) : > 100  
 9.2.4 Flammability (EEC A10/A13) : n.av.  
 9.2.5 Ignition temperature (°C) : 380  
 9.2.6 Autoflammability (EEC A16) : n.av.  
 9.2.7 Oxidising properties : None.  
 9.2.8 Explosion hazard : None.  
 9.2.9 Explosion limits (Vol.%) lower : 1,2, upper : 13  
 9.2.10 Vapour pressure : n.av.  
 9.2.11 Density (g/ml) : 1,03  
 9.2.12 Solubility (in Water) : partly miscible  
 9.2.13 Partition coefficient, n-Octanol/Water : n.av.  
 9.2.14 Viscosity : 190 mPa\*s  
 9.2.15 Solvent separation test : n.av.  
 9.2.16 Solvent content (m %) : n.av.

**9.3 Other information**

9.3.1 Thermal decomposition (°C) : n.av.  
 9.3.2 Vapour density (Air = 1) : n.av.  
 9.3.3 Evaporation rate : n.av.

**10 STABILITY AND REACTIVITY****10.1 Conditions to Avoid :**

Heat, flames and sparks.

**10.2 Materials to Avoid :**

amines, alkali metals, strong acids and oxidizing agents

**10.3 Hazardous Decomposition Products :**

No decomposition if used as directed.

**10.4 Further Information :**

None.

**11 TOXICOLOGICAL INFORMATION****11.1 Toxicological Tests :****11.1.1 Acute Health Effects :**

Inhalation, LC<sub>50</sub> rat, (mg/l/4h) : n.av.  
 Ingestion, LD<sub>50</sub> rat, (mg/kg) : n.av.  
 Skin - contact, LD<sub>50</sub> rat, (mg/kg) : n.av.  
 Irritation (to skin / eye) : Causes burns.  
 Sensitisation : May cause sensitisation by skin contact.

**11.1.2 Subacute / Chronic Toxicity :**

Carcinogenicity : n.av.  
 Mutagenicity : n.av.  
 Teratogenicity : n.av.  
 Narcotic Effects : None.

**11.2 Practical Experience****11.2.1 Observations relevant for classification :**

None.

**11.2.2 Further Observations :**

None.

**11.3 General Remarks :**

Classification of the preparation has been done by calculation in accordance with EEC directives.

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- 12.1 **Ecotoxicity :**  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 12.2 **Mobility :**  
n.av.
- 12.3 **Persistence and degradability:**  
The product is slightly soluble in water. It can be eliminated from water by abiotic processes.
- 12.4 **Bioaccumulative potential:**  
n.av.
- 12.5 **Results of PBT assessment**  
n.av.
- 12.6 **Other adverse effects**
- 12.6.1 COD-Value, mg/g : n.av.
- 12.6.2 BOD<sub>5</sub>-Value, mg/g : n.av.
- 12.6.3 AOX-Remarks : n.av.
- 12.6.4 Significant Components : 3-Aminomethyl-3,5,5-trimethylcyclohexylamine
- 12.6.5 Other adverse effects : None.

**13 DISPOSAL CONSIDERATIONS** (For national Regulations refer to item 15.)

- 13.1 **Residues**
- 13.1.1 Recommendation : D 10 / R 2 Waste - Code - No. : 08 04 10  
In addition comply with the regional authorities.
- 13.1.2 Safe Handling: See item 7 and 15.
- 13.2 **Contaminated Packaging**
- 13.2.1 Recommendation : Wash with suitable cleaner. Otherwise as described under Residues.
- 13.2.2 Safe Handling : As described under Residues.

**14 TRANSPORT INFORMATION****14.1 Transportation by Road or Railway according to ADR and RID****Remarks :****Name and Description:** UN 2735 Amines liquid, corrosive, n.o.s. (contains 3-Aminomethyl-3,5,5-trimethylcyclohexylamine)

Class : 8

UN - No : 2735

Risklabel:

Classification Code: C7

Packing Group : III

Hazard-No.: 80

Transport-category: 3

Limited Quantity: LQ19

**14.2 Classification for Transportation by Inland-Navigation according to ADNO****Remarks : Classification has not been done.**

Class : Division : Category :

**14.2.1 Description of Goods :****14.2.2 Remarks :****14.3 Classification for Transportation by Vessels according to IMDG****Remarks :**

Class : 8

UN-No. : 2735

Packing Group : III

**14.3.1 EmS-No. : F-E, S-B****14.3.2 Marine Pollutant : Yes.****14.3.3 Instruction for Declaration and Labelling :****Proper Shipping Name :** Amines liquid, corrosive, n.o.s. (contains 3-Aminomethyl-3,5,5-trimethylcyclohexylamine)**Risk Label :** Corrosive**14.3.4 Remarks : None.**

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Class : 8 UN-No. : 2735 Packing Group : III

**14.4.1 Instruction for Declaration and Labelling :****Proper Shipping Name :** Amines liquid, corrosive, n.o.s. (contains 3-Aminomethyl-3,5,5-trimethylcyclohexylamine)**Risk Label :** Corrosive

Packing Instructions, Passenger : 818 Cargo : 820

**14.4.2 Remarks :** None.**15 REGULATORY INFORMATION****15.1 Classification according to EEC-Regulations :**

Classification required by EEC : Yes.

Applicable Exemptions : No.

Hazard Identification : Corrosive

Hazard Symbol(s) :

Component(s) : 3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin,  
a,a'-Diamino-1,3-xylol**R-Phrases :**

R20/22 - Harmful by inhalation and if swallowed.

R34 - Causes burns.

R43 - May cause sensitization by skin contact.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-Phrases :**

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 - After contact with skin, wash immediately with plenty of soap and water.

S 36 / 37 / 39 - Wear suitable protective clothing, gloves and eye / face protection.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Additional Markings :

**15.1.1** The above mentioned labelling is valid for distribution to professional use.

Labelling (formats, exemptions, additional markings) has to be done according to respective regulations.

**15.2 National Regulations**

VOC-Content: n.av.

**16 OTHER INFORMATION****Text of R phrases mentioned in Section 3**

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

R20/22 - Harmful by inhalation and if swallowed.

R21/22 - Harmful in contact with skin and if swallowed.

R34 - Causes burns.

R43 - May cause sensitization by skin contact.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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