



**AZ 100 Remover 0005**

Substance No.: SXR065436  
Version 20

Revision Date 11.03.2011

Print Date 21.07.2011

**1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Trade name : AZ 100 Remover 0005

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the Substance/Mixture : Electronic industry  
Intermediate for electronic industry

**1.3 Details of the supplier of the safety data sheet**

Company : AZ Electronic Materials (Germany) GmbH  
Rheingastrasse 190-196 ,  
65203 Wiesbaden Germany

Telephone : +49 (0)611 962 8563

E-mail address : [PSE@az-em.com](mailto:PSE@az-em.com)

Responsible/issuing person : Product Safety:  
+49(0)6126-229248 or +49(0)6126-227340

**1.4 Emergency telephone number**

Emergency telephone number : +49 69 305 6418

**2. Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

**GHS Classification**

Corrosive to metals, Category 1 H290: May be corrosive to metals.  
Skin corrosion, Category 1B H314: Causes severe skin burns and eye damage.

**Classification (67/548/EEC, 1999/45/EC)**

Corrosive R34: Causes burns.

**2.2 Label elements**

**GHS-Labeling**




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Symbol(s) : 

Signal word : Danger

Hazard statements : H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:**  
P280 Wear protective gloves/ protective clothing/  
eye protection/ face protection.

**Response:**  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 IF exposed or concerned:  
P310 Immediately call a POISON CENTER or doctor/ physician.

Hazardous components which must be listed on the label:

- 78-96-6 1-aminopropan-2-ol

**Labelling according to EC Directives**

**1999/45/EC**

Symbol(s) : C Corrosive

R-phrases(s) : R34 Causes burns.

S-phrases(s) : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39 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).  
S60 This material and its container must be disposed of as hazardous waste.

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Hazardous components which must be listed on the label:

- 78-96-6                      1-aminopropan-2-ol
- 34590-94-8                Dipropylene glycol methyl ether

### 2.3 Other hazards

No information available.

## 3. Composition/information on ingredients

### 3.2 Mixtures

#### Chemical characterization

A preparation of organic solvents.

#### 'Hazardous components

##### 1-aminopropan-2-ol

CAS-No.                                : 78-96-6  
EC-No.                                    : 201-162-7

Classification(67/548/EEC)        : C; R34

Classification                         : Skin Corr. 1B; H314  
(REGULATION (EC) No  
1272/2008)

Concentration [%]                    :  $\geq 25 - < 50$

WEL substance :

##### Dipropylene glycol methyl ether

CAS-No.                                : 34590-94-8  
EC-No.                                    : 252-104-2

Concentration [%]                    :  $\geq 50 - \leq 100$

For the full text of the R-phrases mentioned in this Section, see Section 16.  
For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. First aid measures

### 4.1 Description of first aid measures

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- General advice : Remove soiled or soaked clothing immediately  
If someone exposed to the product feels unwell, contact a doctor and show this safety data sheet.  
Adhere to personal protective measures when giving first aid
- Inhalation : Remove the casualty into fresh air and keep him calm.  
Call in a physician immediately and show him the Safety Data Sheet.
- Skin contact : In case of contact with skin wash off immediately with plenty of water  
Call in a physician immediately and show him the Safety Data Sheet.
- Eye contact : Rinse immediately with gently running water for 15 minutes, maintaining eyelids open. Consult at once an ophthalmologist or a physician.
- Ingestion : Do not induce vomiting.  
Call in a physician immediately and show him the Safety Data Sheet.  
Let plenty of water be drunk in small gulps.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

## 5. Fire-fighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : water spray jet  
foam  
dry powder  
carbon dioxide

### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire fighting : In case of fires, hazardous combustion gases are formed:  
Carbon monoxide (CO)  
Nitrous gases (NOx)

### 5.3 Advice for firefighters

- Special protective equipment for fire-fighters : Well closed full protective clothing (coat and pants) including helmet.  
Wear self contained breathing apparatus for fire fighting if



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Further information : necessary.  
: Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : See: Exposure controls and personal protection.

#### 6.2 Environmental precautions

Environmental precautions : Do not allow entry to drains, water courses or soil

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.

#### 6.4 Reference to other sections

Additional advice : Information regarding Safe handling, see chapter 7.  
Information regarding personal protective measures see, chapter 8.  
Information regarding Waste Disposal, see chapter 13.

### 7. Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Ensure adequate ventilation.  
When handling heated product, vapours must be vacuumed up.

Advice on protection against fire and explosion : Development of explosive gas mixtures possible, therefore the working temperature should be kept at least 15 °C below the flash point of solvent mixtures, otherwise explosion protective measures should be taken.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep only in the original container



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Further information on storage conditions : Keep container tightly closed and dry in a cool, well-ventilated place.  
 Advice on common storage : Do not store or transport together with foodstuffs  
 Storage period : 12 Months

**7.3 Specific end uses**

**8. Exposure controls/personal protection**

**8.1 Control parameters**

**Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Update	Basis
<b>Dipropylene glycol methyl ether</b>	34590-94-8	TWA	50 ppm 308 mg/m <sup>3</sup>	2000-06-16	2000/39/EC
Further information	:	skin: Identifies the possibility of significant uptake through the skin Indicative			

**8.2 Exposure controls**

**Engineering measures**

See chapter 7; no measures exceeding the ones mentioned are necessary.

**Personal protective equipment**

Respiratory protection : Use respiratory protection in case of insufficient exhaust ventilation or prolonged exposure

Hand protection : Break through time: > 10 min  
 Glove thickness: > 0,4 mm  
 For short-term exposure (splash protection):  
 Nitrile rubber gloves.  
 Remarks: These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.

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- Eye protection : tightly fitting safety glasses
- Skin and body protection : Protective suit
- Hygiene measures : When using do not eat, drink or smoke.  
Keep away from food and drink.  
Wash hands before breaks and at the end of workday.  
Use barrier skin cream.
- Protective measures : Do not inhale vapours  
Avoid contact with eyes and skin  
Observe the usual precautions for handling chemicals.

### Environmental exposure controls

- General advice : Do not allow entry to drains, water courses or soil

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Form : Liquid
- Colour : slightly yellowish
- Odour : slightly ammonia-like

#### Safety data

- Flash point : 81 °C
- Ignition temperature : not determined
- Thermal decomposition : not determined
- Lower explosion limit : not determined
- Upper explosion limit : not determined
- Flammability (solid, gas) : not determined
- Oxidizing properties : not determined
- Autoignition temperature : not determined
- Burning number : not determined
- pH : approx. 11,6, Concentration: 100,00 g/l, 20 °C
- Freezing point : not determined
- Boiling range : 159 - 194 °C
- Sublimation point : not determined
- Vapour pressure : approx. 40 hPa, 80 °C  
approx. 1 hPa, 20 °C
- Density : approx. 1 g/cm<sup>3</sup>, 20 °C

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Water solubility	: miscible in all proportions
Partition coefficient: n-octanol/water	: not determined
Solubility in other solvents	: not determined
Viscosity, dynamic	: approx. 6,7 - 7,7 mPas
Viscosity, kinematic	: not determined
Relative vapour density	: not determined
Evaporation rate	: not determined

### 9.2 Other information

Further information : Note: Corrosive effects on Aluminum and Zink.

## 10. Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Reactions with acids.  
Reactions with oxidising agents.

### 10.4 Conditions to avoid

Conditions to avoid : no data available

### 10.5 Incompatible materials

Materials to avoid : Acids

### 10.6 Hazardous decomposition products

Hazardous decomposition products : when handled and stored appropriately no dangerous decomposition products are known

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Product

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available





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Acute dermal toxicity : no data available  
Skin corrosion/irritation : Result: Causes burns., OECD 404  
Serious eye damage/eye irritation : no data available  
Respiratory or skin sensitization : no data available

## 12. Ecological information

### 12.1 Toxicity

**Product:**

Toxicity to fish : no data available  
Toxicity to daphnia and other aquatic invertebrates. : no data available  
Toxicity to bacteria : EC0: approx. 2.500 mg/l

### 12.2 Persistence and degradability

**Product:**

Biodegradability : > 70 %, Result: inherently biodegradable, OECD 302 B

### 12.3 Bioaccumulative potential

### 12.4 Mobility in soil

### 12.5 Results of PBT and vPvB assessment

### 12.6 Other adverse effects

**Product:**

Additional ecological information : Details for used product (with detached AZ Photoresist-Layer).

## 13. Disposal considerations

### 13.1 Waste treatment methods

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Product : Incineration in suitable incineration plant, observing local authority regulations

Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste

### 14. Transport information

#### ADR

UN number : 2735  
Description of the goods : AMINES, LIQUID, CORROSIVE, N.O.S.  
(1-Aminopropan-2-ol)  
Class : 8  
Packing group : II  
Classification Code : C7  
Hazard identification No : 80  
Labels : 8  
Environmentally hazardous : no

#### IATA

UN number : 2735  
Description of the goods : Amines, liquid, corrosive, n.o.s.  
(1-Aminopropan-2-ol)  
Class : 8  
Packing group : II  
Labels : 8  
Environmentally hazardous : no

#### IMDG

UN number : 2735  
Description of the goods : AMINES, LIQUID, CORROSIVE, N.O.S.  
(1-Aminopropan-2-ol)  
Class : 8  
Packing group : II  
Labels : 8  
EmS Number 1 : F-A  
EmS Number 2 : S-B  
Marine pollutant : no

#### RID

UN number : 2735  
Description of the goods : AMINES, LIQUID, CORROSIVE, N.O.S.  
(1-Aminopropan-2-ol)  
Class : 8  
Packing group : II  
Classification Code : C7



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Hazard identification No : 80  
Labels : 8  
Environmentally hazardous : no

**15. Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.2 Chemical Safety Assessment**

**16. Other information**

**Full text of R-phrases referred to under sections 2 and 3**

R34 Causes burns.

**Full text of H-Statements referred to under sections 2 and 3.**

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35 g/cm<sup>3</sup>)

**Further information**

Further information : Observe national and local legal requirements

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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