

**Safety data sheet in accordance with 2001/58/EC**  
**AZ 726 MIF Developer (DE)**

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Substance key: SXR054682  
Version : 1 - 6 / EURevision Date: 29.05.2003  
Date of printing : 17.11.2004**1. Identification of the substance/preparation and company****Trade name****AZ 726 MIF Developer (DE)****Material number:** 100558**Use of the substance/preparation.**Industry sector : Electronic industry  
Type of use : Intermediate for electronic industry**Identification of the company**

Clariant AZ (Deutschland) AG

Am Unisys-Park 1  
65840 Sulzbach  
Telephone no. : +49 6196 757-6100**Information about the substance/preparation**Product Safety  
+49(0)6103-8079450 or +49(0)6126-227340**Emergency telephone number :** +49 69 305 6418**2. Composition/information on ingredients****Chemical characterization**

Aqueous alkaline preparation.

**Hazardous ingredients**TMAH, 25% aqueous solution  
Concentration : < 20 %  
CAS number : 75-59-2  
EINECS number : 200-882-9  
Hazard symbols C  
R phrases 21 35**3. Hazards identification**

Causes burns.

**4. First aid measures****General information**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**After inhalation**Remove the casualty into fresh air and keep him calm.  
Call in a physician immediately and show him the Safety Data Sheet.

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Call in a physician immediately and show him the Safety Data Sheet.

**After contact with eyes**

Rinse immediately with gently running water for 15 minutes, maintaining eyelids open. Consult at once an ophthalmologist or a physician.

**After 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.

**Advice to doctor****Treatment**

Treat symptomatically.

**5. Fire-fighting measures****Suitable extinguishing media**

compatible with all usual extinguishing media

**Special hazards from the substance itself, its combustion products or from its vapours**In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO)  
Nitrous gases (NO<sub>x</sub>)**Special protective equipment for firefighting**Well closed full protective clothing (coat and pants) including helmet.  
Use self-contained breathing apparatus**Further information**

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

**6. Accidental release measures****Personal precautions**

See: Exposure controls and personal protection.

**Environmental precautions**

Do not allow entry to drains, water courses or soil

**Methods for cleaning up/taking up**Pick up with liquid binding materials and if necessary fill in containers capable of being locked.  
Containers in which spilled substance has been collected must be adequately labelled  
Dispose of absorbed material in accordance with the regulations.  
Clean contaminated floors and objects thoroughly, observing environmental regulations**Additional information**

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**

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### Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary).

### Advice on protection against fire and explosion

Observe the general rules of industrial fire protection

### Requirements for storage rooms and vessels

Keep only in the original container

### Advice on storage compatibility

Do not store or transport together with foodstuffs

### Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place

## 8. Exposure controls/personal protection

### Additional advice on system design

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

### General protective measures

Do not inhale vapours  
Avoid contact with eyes and skin  
Observe the usual precautions for handling chemicals.

### Hygiene measures

At work do not eat, drink, smoke or take drugs.  
Keep away from foodstuffs and beverages.  
Wash hands before breaks and after work.  
Use barrier skin cream.

### Respiratory protection :

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

### Hand protection :

For short-term exposure (splash protection):  
Nitrile rubber gloves.  
Minimum breakthrough time / gloves : > 10 min  
Minimum thickness / gloves > 0,4 mm

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.

### Eye protection :

tightly fitting safety glasses

### Body protection :

protective clothing

## 9. Physical and chemical properties

### Form :

Liquid

### Colour :

colourless

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<b>Odour :</b>	slight, product specific
<b>Boiling temperature :</b>	approx. 100 °C
<b>Flash point :</b>	Not applicable
<b>Ignition temperature :</b>	not determined
<b>Self-ignition temperature :</b>	not determined
<b>Lower explosion limit :</b>	not determined
<b>Upper explosion limit :</b>	not determined
<b>Vapour pressure :</b>	approx. 23 mbar (20 °C)
<b>Density :</b>	approx. 1 g/cm <sup>3</sup> (20 °C)
<b>Solubility in water :</b>	miscible in all proportions
<b>pH value :</b>	approx. 13 (20 °C)
<b>Octanol/water partition coefficient (log Pow) :</b>	not reasonable
<b>Viscosity (dynamic) :</b>	approx. 1 mPa.s (20 °C)

#### Further information

Corrosive effects on Aluminum and Zink.

## 10. Stability and reactivity

**Thermal decomposition :** No decomposition if used as prescribed.

#### Hazardous reactions

When heated over 110 °C, evolution of Trimethylamine and Methanol can take place.

#### Hazardous decomposition products

when handled and stored appropriately no dangerous decomposition products are known

## 11. Toxicological information

**Acute dermal toxicity :** LD50 449 mg/kg (rat)  
Method : OECD 402 - EEC 92/69, B.3  
The information refers to the 25% aqueous solution of tetramethylammonium hydroxide.

#### Remarks

Causes burns

## 12. Ecological information

**Biodegradability :** readily degradable  
Method : OECD 301B / EEC 92/69 C4

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**Daphnia toxicity :** EC50 12 mg/l (48 h, Daphnia magna)  
Method : OECD 202.1  
The information refers to the 25% aqueous solution of tetramethylammonium hydroxide.

**Algae toxicity :** EC50 > 1.000 mg/l (72 h, Scenedesmus subspicatus)  
Method : OECD 201  
The information refers to the 25% aqueous solution of tetramethylammonium hydroxide.

### Remarks

Do not dispose of in the environment.

## 13. Disposal considerations

### Product

Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities

### Uncleaned packaging

Packaging that cannot be cleaned should be disposed of as product waste

## 14. Transport information

### ADR

Proper shipping name: Caustic alkali liquid, n.o.s.  
Class: 8  
Packing group: III  
UN no. UN 1719  
Primary risk: 8  
Hazard no. : 80  
Remarks Shipment permitted  
Hazard inducer(s): Tetramethylammonium Hydroxide, Solution

### ADNR

Proper shipping name: Caustic alkali liquid, n.o.s.  
Class: 8  
Packing group: III  
UN no. UN 1719  
Primary risk: 8  
Remarks Shipment permitted  
Hazard inducer(s): Tetramethylammonium Hydroxide, Solution

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**RID**

Proper shipping name: Caustic alkali liquid, n.o.s.  
Class: 8  
Packing group: III  
UN no. UN 1719  
Primary risk: 8  
Hazard no. : 80  
Remarks Shipment permitted  
Hazard inducer(s): Tetramethylammonium Hydroxide, Solution

**IATA**

Proper shipping name: Caustic alkali liquid, n.o.s.  
Class: 8  
Packing group: III  
UN/ID number: UN 1719  
Primary risk: 8  
Remarks Shipment permitted  
Hazard inducer(s): Tetramethylammonium Hydroxide, Solution

**IMDG**

Proper shipping name: Caustic alkali liquid, n.o.s.  
Class: 8  
Packing group: III  
UN no. UN 1719  
Primary risk: 8  
Remarks Shipment permitted  
Hazard inducer(s): Tetramethylammonium Hydroxide, Solution  
EmS : 8-06

**15. Regulatory information**

**Labelling in accordance with EC-Directives**

The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.  
Labelling on the basis of our own findings.

**Hazard symbols**

C Corrosive

**Hazardous component(s) to be indicated on label**

Tetramethylammonium hydroxide

**R phrases**

34 Causes burns.

**S phrases**

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).

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Observe national and local legal requirements

**Text of the R-phrases which are allocated to the ingredients/components mentioned in section 2 of this Safety Data Sheet.**

21	Harmful in contact with skin.
35	Causes severe burns.

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.