

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



AZ Developer

0005

Substance No.: SXR084852
Version 20

Revision Date 23.11.2010

Print Date 22.07.2011

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

1.1 Product identifier

Trade name : AZ Developer 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
Rheingaustrasse 190-196 ,
65203 Wiesbaden Germany

Telephone : +49 (0)611 962 8563
E-mail address : 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

Eye irritation, Category 2 H319: Causes serious eye irritation.

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

Irritant R36: Irritating to eyes.

2.2 Label elements

GHS-Labeling



AZ Developer **0005**

Substance No.: SXR084852
Version 20

Revision Date 23.11.2010

Print Date 22.07.2011

Symbol(s)

:



Signal word

: Warning

Hazard statements

: H319

Causes serious eye irritation.

Precautionary statements

: **Prevention:**

P264

Wash skin thoroughly after handling.

P280

Wear protective gloves/eye protection/face protection.

Response:

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313

If eye irritation persists: Get medical advice/attention.

Labelling according to EC Directives

Symbol(s)

: Xi

Irritant

R-phrases(s)

: R36

Irritating to eyes.

S-phrases(s)

: S26

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

Hazardous components which must be listed on the label:

- 6834-92-0 disodium metasilicate

2.3 Other hazards

No information available.

3. Composition/information on ingredients

3.2 Mixtures

Chemical characterization

Aqueous alkaline preparation.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



AZ Developer

0005

Substance No.: SXR084852
Version 20

Revision Date 23.11.2010

Print Date 22.07.2011

'Hazardous components

disodium metasilicate

CAS-No. : 6834-92-0
EC-No. : 229-912-9

Classification(67/548/EEC) : C; R34
Xi; R37

Classification : Skin Corr. 1B; H314
(REGULATION (EC) No 3; H335
1272/2008)
Concentration [%] : < 5

Trisodium orthophosphate

CAS-No. : 7601-54-9
EC-No. : 231-509-8

Classification(67/548/EEC) : Xi; R36/38

Classification : 2; H315
(REGULATION (EC) No Eye Irrit. 2; H319
1272/2008)
Concentration [%] : < 10

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

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



AZ Developer

0005

Substance No.: SXR084852
Version 20

Revision Date 23.11.2010

Print Date 22.07.2011

- 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.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media : compatible with all usual extinguishing media

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : No information available.

5.3 Precautions for fire-fighters

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 necessary.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with 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



AZ Developer 0005

Substance No.: SXR084852
Version 20

Revision Date 23.11.2010

Print Date 22.07.2011

Methods for cleaning up : Rinse off with lots of water, in required by addition of citric acid, observe pH-value.

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 : Use only in area provided with appropriate exhaust ventilation.
Advice on protection against fire and explosion : Observe the general rules of industrial fire protection

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end uses

8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

See chapter7; no measures exceeding the ones mentioned are necessary.

Personal protective equipment

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



AZ Developer

0005

Substance No.: SXR084852
Version 20

Revision Date 23.11.2010

Print Date 22.07.2011

- 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.
- Eye protection : Tightly fitting safety goggles
- 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 : colourless
- Odour : odourless

Safety data

- Flash point : Note: Not applicable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



AZ Developer

0005

Substance No.: SXR084852
Version 20

Revision Date 23.11.2010

Print Date 22.07.2011

Ignition temperature	: 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. 13 at 20 °C
Freezing point	: not determined
Boiling temperature	: approx. 100 °C
Sublimation point	: not determined
Vapour pressure	: approx.23 hPa at 20 °C
Density	: approx.1 g/cm ³ at 20 °C
Water solubility	: Note: miscible in all proportions
Partition coefficient: n- octanol/water	: not determined
Solubility in other solvents	: not determined
Viscosity, dynamic	: approx.1 mPas at 20 °C
Viscosity, kinematic	: not determined
Relative vapour density	: not determined
Evaporation rate	: not determined



AZ Developer

0005

Substance No.: SXR084852
Version 20

Revision Date 23.11.2010

Print Date 22.07.2011

Eye irritation : Species: rabbit
Result: Eye irritation
Classification: Irritating to eyes.
Method: OECD 405

Respiratory or skin sensitization

Sensitisation : no data available

Further information : Test result of a related preparation.

12. Ecological information

12.1 Toxicity

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates. : no data available

Toxicity to bacteria : no data available

12.2 Persistence and degradability

Biodegradability : no data available

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

Additional ecological information : Harmful effects to bacteria: according to experience, is not harmful in purification plants after neutralisation in quantities < 10 g/l

13. Disposal considerations

13.1 Waste treatment methods



AZ Developer

0005

Substance No.: SXR084852
Version 20

Revision Date 23.11.2010

Print Date 22.07.2011

- Product : If necessary it can after neutralisation be let into drainage.
- : Before neutralisation, dilute with at least 3 parts water, otherwise a non-freeflowing gel may result
- : Recommended neutraliser: 5% hydrochloric acid
- : If discharge is forbidden by water bye-laws, dispose of as waste product.
- Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste

14. Transport information

ADR

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID

Not dangerous goods

15. Regulatory information

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

Candidate List of Substances : Neither banned nor restricted of Very High Concern for Authorisation

15.2 Chemical Safety Assessment

16. Other information

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



AZ Developer

0005

Substance No.: SXR084852
Version 20

Revision Date 23.11.2010

Print Date 22.07.2011

R34	Causes burns.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.

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

H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

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/cm³)

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.

AZ is a trademark or a registered trademark and the AZ logo is a registered trademark of AZ Electronic Materials.