

* **1 Identification of substance**

- Product details
- Trade name: **Basic Crystallizer AK 1**
- Article number: 10847
- Application of the substance / the preparation Surface protection
- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH Tel. +49(0)911-642960
Lechstrasse 28 Fax. +49(0)911-644456
D 90451 Nürnberg e-mail info@akemi.de
- Information department: Laboratory

* **2 Composition/Data on components**

- Chemical characterization
 - Description: Mixture of the substances listed below with nonhazardous additions.
 - Dangerous components:
- | | | |
|-------------------------|------------------------------|--------|
| CAS: 16949-65-8 | magnesium hexafluorosilicate | <12.5% |
| EINECS: 241-022-2 | T; R 25 | |
| EU Number: 009-018-00-3 | | |
- Additional information: For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- Hazard description: Xn Harmful
- Information pertaining to particular dangers for man and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. Harmful if swallowed.
- Classification system: The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- NFPA ratings (scale 0 - 4) Health = 2
Fire = 0
Reactivity = 0
- HMIS-ratings (scale 0 - 4) Health = 2
Fire = 0
Reactivity = 0

* **4 First aid measures**

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Rinse with warm water.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.

* **5 Fire fighting measures**

- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards caused by the material, its products of combustion or resulting gases: In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Hydrogen fluoride (HF)
- Protective equipment: Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.

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- Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

* 6 Accidental release measures

- Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection: Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.

* 7 Handling and storage

- Handling:
- Information for safe handling: Keep receptacles tightly sealed.
- Information about protection against explosions and fires: No special measures required.
- Storage:
- Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

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 critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation were used as basis.
- Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke or sniff while working.
Avoid contact with the eyes and skin.
- Breathing equipment: Not required.
- Protection of hands: Protective gloves
- Material of gloves Natural rubber, NR
Chloroprene rubber, CR
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Safety glasses

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· Body protection: Protective work clothing

9 Physical and chemical properties

· General Information

Form: Fluid
Color: Blue
Odor: Weak, characteristic

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

· Ignition temperature:

· Decomposition temperature: 120°C (248°F)

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Density at 20°C (68°F): ~ 1.09 g/cm³

· Solubility in / Miscibility with Water: Fully miscible.

· pH-value at 20°C (68°F): 2

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided: Thermal decomposition > 120 °C.
 · Dangerous reactions Reacts with alkali (lyes).

· Dangerous products of decomposition: Hydrogen fluoride
 Irritant gases/vapors

11 Toxicological information

· Acute toxicity:
 · Primary irritant effect:
 · on the skin: No irritant effect.
 · on the eye: No irritating effect.
 · Sensitization: No sensitizing effects known.
 · Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations:
 Harmful

12 Ecological information

· General notes: Do not allow product to reach ground water, water course or sewage system.
 Water hazard class 1 (Self-assessment): slightly hazardous for water

13 Disposal considerations

· Product:
 · Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations. Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

14 Transport information

- DOT regulations:
- Hazard class: -
- Land transport ADR/RID (cross-border):
- ADR/RID class: -
- Maritime transport IMDG:
- IMDG Class: -
- Marine pollutant: No
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: -

15 Regulations

- Sara
- Section 355 (extremely hazardous substances):
None of the ingredient is listed.
- Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.
- TSCA (Toxic Substances Control Act):
All ingredients are listed.
- Proposition 65
- Chemicals known to cause cancer:
None of the ingredients is listed.
- Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
- Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
- Chemicals known to cause developmental toxicity:
None of the ingredients is listed.
- Cancerogenity categories
- EPA (Environmental Protection Agency)
None of the ingredients is listed.
- IARC (International Agency for Research on Cancer)
None of the ingredients is listed.
- NTP (National Toxicology Program)
None of the ingredients is listed.
- TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.
- MAK (German Maximum Workplace Concentration)
None of the ingredients is listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
- OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.
- Product related hazard informations: The product has been classified and marked in accordance with directives on hazardous materials.
- Hazard symbols: Xn Harmful
- Hazard-determining components of labelling: magnesium hexafluorosilicate
- Risk phrases: Harmful if swallowed.

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- Safety phrases:
 - Keep out of the reach of children.
 - Keep away from food, drink and animal feedingstuffs.
 - Avoid contact with skin and eyes.
 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point
 - Wear suitable protective clothing.
 - If swallowed, seek medical advice immediately and show this container or label.
- National regulations:
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing MSDS: Laboratory
- Contact: Dieter Zimmermann
- * Data compared to the previous version altered.

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