MENT®

according to 1907/2006/EC, Article 31

Printing date 14.12.2020 Version number 5 Revision: 14.12.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: Finish Crystallizer AK2 10848, 10987 / 10995 · Article number: · UFI: GDM2-003D-P00G-X8W9

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

No further relevant information available.

· Application of the substance / the

mixture

Surface protection

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH

Laboratory

Tel. +49(0)911-642960 Lechstrasse 28 Fax. +49(0)911-644456 D 90451 Nürnberg e-mail info@akemi.de

· Further information obtainable

from:

· 1.4 Emergency telephone

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH number:

Tel. +49(0)911-64296-59

Reachable during the following office hours: Monday – Thursday from 07:30 a.m. to 16:30 p.m.

Friday from 07:30 a.m. to 13:30 p.m.

+44 (171) 635 91 91

National Poison Inform, Centre Medical Toxicology Unit Avalonley Road

London SE14 5ER

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.

Eye Irrit. 2 H319 Causes serious eye irritation.

· 2.2 Label elements

· Labelling according to Regulation

(EC) No 1272/2008 Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS07

· Signal word Warning

Hazard-determining components of

labelling: magnesium hexafluorosilicate · Hazard statements H302 Harmful if swallowed.

H319 Causes serious eye irritation.

· Precautionary statements If medical advice is needed, have product container or label at P101

hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions. P280 Wear protective gloves / eye protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel

unwell

P330 Rinse mouth.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

(Contd. on page 2)



according to 1907/2006/EC, Article 31

Printing date 14.12.2020 Version number 5 Revision: 14.12.2020

Trade name: Finish Crystallizer AK2

(Contd. of page 1)

P501

Dispose of contents/container in accordance with local/

regional/national/international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable. · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

Mixture of substances listed below with nonhazardous additions. · Description:

· Dangerous components:

CAS: 18972-56-0 magnesium hexafluorosilicate

Acute Tox. 3, H301

<12.5%

EINECS: 241-022-2 Index number: 009-018-00-3

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical

observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for

transportation.

Seek immediate medical advice.

Rub in Ca-gluconate solution or Ca-gluconate gel immediately. · After skin contact:

Seek immediate medical advice.

Immediately wash with water and soap and rinse thoroughly.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a

doctor.

Do not induce vomiting; call for medical help immediately. · After swallowing:

Rinse out mouth and then drink plenty of water.

Call for a doctor immediately.

· 4.2 Most important symptoms and effects, both acute and

delaved

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special

treatment needed No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

 Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol

resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from

the substance or mixture Under certain fire conditions, traces of other toxic gases cannot be excluded,

Hydrogen fluoride (HF)

· 5.3 Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

(Contd. on page 3)



according to 1907/2006/EC, Article 31

Printing date 14.12.2020 Version number 5 Revision: 14.12.2020

Trade name: Finish Crystallizer AK2

(Contd. of page 2)

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

system.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and

emergency procedures Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

· 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage

system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for

Absorb with liquid-binding material (sand, diatomite, acid binders, universal containment and cleaning up:

binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 6.4 Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling Keep receptacles tightly sealed.

> Ensure good ventilation/exhaustion at the workplace. Store in cool, dry place in tightly closed receptacles.

Prevent formation of aerosols.

· Information about fire - and

explosion protection: The product is not flammable. No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by

storerooms and receptacles: Prevent any seepage into the ground.

· Information about storage in one

Store away from foodstuffs. common storage facility:

· Further information about storage

conditions: None. Storage class: 12

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Additional information about design

No further data; see item 7. of technical facilities:

· Ingredients with limit values that require monitoring at the workplace:

18972-56-0 magnesium hexafluorosilicate

TWA Long-term value: 2.5 mg/m³

· Additional information: The lists valid during the making were used as basis.

(Contd. on page 4)



according to 1907/2006/EC, Article 31

Printing date 14.12.2020 Version number 5 Revision: 14.12.2020

Trade name: Finish Crystallizer AK2

(Contd. of page 3)

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic

measures:

Do not eat, drink, smoke or sniff while working. 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 inhale gases / fumes / aerosols.

· Respiratory protection:

· Protection of hands:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory anylyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: http://www.kcl.de).



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Nitrile rubber, NBR Chloroprene rubber, CR

Butyl rubber, BR

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

Value for the permeation: Level \leq 6, 480 min

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

Camatril (KCL, Art_No. 730, 731, 732, 733)

Dermatril (Art_No. 740, 741, 742)

Chloroprene rubber, CR

Camapren (KCL, Art No. 720, 722, 726)

Butyl rubber, BR

Butoject (KCL, Art_No. 897, 898)

· As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Camatril (KCL, 730, 731, 732, 733) Dermatril (KCL, Art No. 740, 741, 742)

(Contd. on page 5)



(Contd. of page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.12.2020 Version number 5 Revision: 14.12.2020

Trade name: Finish Crystallizer AK2

Chloroprene rubber, CR

Camapren (KCL, Art No. 720, 722, 726)

· Not suitable are gloves made of

the following materials:

Leather gloves

Strong material gloves

· Eye protection:

Safety glasses

Goggles recommended during refilling

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basi	c physical and	chemical properties
Conoral Information		

General Information

· Appearance:

Form: Liquid
Colour: Pink
Odour: Odourless

· pH-value at 20 °C:

· Change in condition

Melting point/freezing point: Undetermined. Initial boiling point and boiling range: 100 °C

· Flash point: Not applicable.

· <u>Decomposition temperature:</u> 120 °C

· <u>Auto-ignition temperature:</u> Product is not selfigniting.

• Explosive properties: Product does not present an explosion hazard.

3

· <u>Vapour pressure at 20 °C:</u> 23 hPa

· Density at 20 °C: 1.1 g/cm³

· Solubility in / Miscibility with

water: Fully miscible.

· Viscosity:

Dynamic: Not determined.
Not applicable

Kinematic: Not determined. Not applicable

· Solvent content:

<u>Water:</u> 86.3 %

Solids content: 0.4 %

• **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

• **10.1 Reactivity** No further relevant information available.

· 10.2 Chemical stability

· Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous

reactions

Reacts with alkali (lyes).

• 10.4 Conditions to avoid No further relevant information available. • 10.5 Incompatible materials: No further relevant information available.

(Contd. on page 6)



(Contd. of page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.12.2020 Version number 5 Revision: 14.12.2020

Trade name: Finish Crystallizer AK2

· 10.6 Hazardous decomposition

products: Hydrogen fluoride

Irritant gases/vapours

SECTION 11: Toxicological information

11.1 Information on toxicological effects

· Acute toxicity Harmful if swallowed.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 839 mg/kg

18972-56-0 magnesium hexafluorosilicate

Oral LD50 100 mg/kg (ATE)

Primary irritant effect:

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

· Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· Additional toxicological information:

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 STOT-repeated exposure
 Aspiration hazard
 Based on available data, the classification criteria are not met.
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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

· 12.2 Persistence and

degradability
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 No further relevant information available.
 No further relevant information available.

· Additional ecological information:

· <u>General notes:</u> Do not allow product to reach ground water, water course or sewage system.

Do not allow undiluted product or large quantities of it to reach ground water,

water course or sewage system. Avoid transfer into the environment.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous

for water

· 12.5 Results of PBT and vPvB assessment

· <u>PBT:</u> Not applicable. · vPvB: Not applicable.

• **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product to

reach sewage system.

· Uncleaned packaging:

· Recommendation: Empty contaminated packagings thoroughly. They may be recycled after

thorough and proper cleaning.

(Contd. on page 7)



according to 1907/2006/EC, Article 31

Printing date 14.12.2020 Version number 5 Revision: 14.12.2020

Trade name: Finish Crystallizer AK2

(Contd. of page 6)

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

SECTION 14. Transport information	
· <u>14.1 UN-Number</u> · <u>ADR, ADN, IMDG, IATA</u>	Void
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es)	
· <u>ADR, ADN, IMDG, IATA</u> · <u>Class</u>	Void
· 14.4 Packing group · <u>ADR, IMDG, IATA</u>	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.	

Void

Not dangerous according to the above specifications.

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU

· UN "Model Regulation":

· Named dangerous substances -

· Transport/Additional information:

ANNEX I None of the ingredients is listed.

· REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· National regulations:

· Information about limitation of use: Employment restrictions concerning juveniles must be observed.

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· VOC EU 0.0 g/l

15.2 Chemical safety

assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

· Reasons for alterations

Relevant phrases H301 Toxic if swallowed.

Department issuing SDS: Laboratory

· Contact: Dieter Zimmermann

· Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European

Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

(Contd. on page 8)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.12.2020 Version number 5 Revision: 14.12.2020

Trade name: Finish Crystallizer AK2

IATA: International Air Transport Association

(Contd. of page 7)

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity - oral - Category 3 Acute Tox. 4: Acute toxicity - oral - Category 4

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

· * Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC