

e-mail info@akemi.de

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.03.2023 Version number 4 (replaces version 3) Revision: 02.03.2023

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

· 1.1 Product identifier

· Trade name: Finish Crystallizer AK2

· Article number: 10848

· UFI: V8S6-Q048-E009-TPK4

1.2 Relevant identified uses of the substance or mixture and

uses advised againstNo further relevant information available.

· Application of the substance / the

<u>mixture</u> Surface protection

· 1.3 Details of the supplier of the safety data sheet

• <u>Manufacturer/Supplier:</u> AKEMI chemisch technische Spezialfabrik GmbH Tel. +49(0)911-642960 Lechstrasse 28 Fax. +49(0)911-644456

Lechstrasse 28 D 90451 Nürnberg

· Further information obtainable

<u>from:</u> Laboratory

1.4 Emergency telephone

<u>number:</u> Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH

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.

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.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· 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

2-methyl-2H-isothiazol-3-one

· <u>Hazard statements</u> H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

• <u>Precautionary statements</u> P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P280 Wear protective gloves.

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

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/

national/international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· <u>PBT:</u> Not applicable.

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· vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

Dangerous components:		
CAS: 18972-56-0 EINECS: 241-022-2 Index number: 009-018-00-3	magnesium hexafluorosilicate Acute Tox. 3, H301	<12.5%
CAS: 68920-66-1 NLP: 500-236-9	Fettalkoholethoxylat Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 4, H302; Skin Irrit. 2, H315 Aquatic Chronic 3, H412	<1%
CAS: 2682-20-4 EINECS: 220-239-6 Index number: 613-326-00-9 Reg.nr.: 01-2120764690-50	2-methyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330 Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1) Skin Sens. 1A, H317; STOT SE 3, H335 EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %	<1%

· Regulation (EC) No 648/2004 on detergents / Labelling for contents

preservation agents (BENZISOTHIAZOLINONE, METHYLISOTHIAZOLINONE)

<5%

· 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.

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

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.

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

Rinse out mouth and then drink plenty of water.

Call for a doctor immediately.

• 4.2 Most important symptoms and effects, both acute and

delayed

No further relevant information available.

• 4.3 Indication of any immediate medical attention and special

treatment needed No further relevant information available.

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SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· <u>Suitable extinguishing agents:</u> 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,

e.g.:

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.

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

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

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:

<u>ptacles:</u> Prevent any seepage into the ground.

· Information about storage in one common storage facility:

Store away from foodstuffs.

· Further information about storage

conditions: None.

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· Storage class: 12

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients 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. The lists valid during the making were used as basis.

· Additional information: · 8.2 Exposure controls

· Appropriate engineering controls No further data; see item 7.

· Individual protection measures, such as 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:

· Hand protection

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

Butvl 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

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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)

Chloroprene rubber, CR

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

· Not suitable are gloves made of

the following materials:

Leather gloves Safety glasses

Strong material gloves

Eye/face protection

Goggles recommended during refilling

Protective work clothing · Body protection:

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour: Pink · Odour: Odourless Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and boiling range 100 °C Not applicable. · Flash point:

120 °C · Decomposition temperature: 3

· pH at 20 °C

· Viscosity:

· Kinematic viscosity Not determined. Not applicable

Not determined. · Dynamic: Not applicable

Solubility

Fully miscible. · water: · Vapour pressure at 20 °C: 23 hPa

· Density and/or relative density

 Density at 20 °C: 1.1 g/cm³

• 9.2 Other information

· Appearance:

· Form: Liquid

· Important information on protection of health and

environment, and on safety.

· Auto-ignition temperature: Product is not selfigniting.

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

· Solvent content:

· Water: 87.3 %

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0.4 %

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· Solids content:

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	: 4 4 :	

· Information with regard to physical hazard classes

· Explosives Void

· Flammable gases Void

· <u>Aerosols</u> Void

· Oxidising gases Void

· Gases under pressure Void · Flammable liquids Void

Flammable solids Void

· Self-reactive substances and mixtures

Void · Pyrophoric liquids Void

· Pyrophoric solids Void

· Self-heating substances and mixtures

Void

· Substances and mixtures, which emit flammable

gases in contact with water

Void

· Oxidising liquids Void · Oxidising solids Void

Oxidising solidsOrganic peroxidesVoid

Corrosive to metals
 Desensitised explosives
 Void

SECTION 10: Stability and reactivity

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

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

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

· 10.3 Possibility of hazardous

<u>reactions</u> Reacts with alkali (lyes).

• 10.4 Conditions to avoid
• 10.5 Incompatible materials:

No further relevant information available.

No further relevant information available.

· 10.6 Hazardous decomposition

products: Hydrogen fluoride Irritant gases/vapours

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· 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)

68920-66-1 Fettalkoholethoxylat

Oral LD50 >300-<2,000 mg/kg (rat) (OECD 423)

2682-20-4 2-methyl-2H-isothiazol-3-one

Oral LD50 120 mg/kg (rat)

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Dermal LD50 242 mg/kg (rat) Inhalative LC50/4 h 0.11 mg/l (rat)

Skin corrosion/irritation
 Serious eye damage/irritation
 Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.
May cause an allergic skin reaction.

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 STOT-repeated exposure
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
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 Based on available data, the classification criteria are not met.

11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

LC50/96h 4.77-6 mg/l (rainbow trout)

· 12.1 Toxicity

· Aspiration hazard

	· Aquatic toxicity:			
Ī	2682-20-4 2	682-20-4 2-methyl-2H-isothiazol-3-one		
Ī	EC50	34.6 mg/l (BES) (DIN 38412-3)		
	EC50/48h	0.93-1.9 mg/l (daphnia magna)		
	ErC50/72h	0.1 mg/l (Skeletonema costatum (Kieselalge))		
	EC50/16h	2.3 mg/l (pseudomonas putida)		
	EC20/3h	2.8 mg/l (BES) (DIN 38412-3)		
	NOEC/21d	0.04 mg/l (daphnia magna)		
۱	EC50/72h	0.157 mg/l (Pseudokirchneriella subcapitata)		

Based on available data, the classification criteria are not met.

12.2 Persistence and

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

 $\begin{array}{ll} \cdot \ \ \, \underline{\text{12.5 Results of PBT and vPvB assessment}} \\ \cdot \ \ \, \underline{\text{PBT:}} \\ \cdot \ \ \, \text{VPvB:} \end{array} \qquad \begin{array}{ll} \text{Not applicable.} \\ \text{Not applicable.} \\ \end{array}$

12.6 Endocrine disrupting

properties

12 6 Endocrino diamentina

12.7 Other adverse effects

· 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,

The product does not contain substances with endocrine disrupting properties.

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

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

for water

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

• <u>Recommendation</u> Must be specially treated adhering to official regulations.

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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.

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

SECTION 14: Transport information

o	
· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	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
· <u>14.4 Packing group</u> · <u>ADR, IMDG, IATA</u>	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IM instruments	O Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

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.

- · REGULATION (EU) 2019/1148
- · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

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Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

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.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· <u>VOC EU</u> 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.

Department issuing SDS:Contact:LaboratoryElke Hake

Fon ++49 (0)911 64296-59

@mail E.Hake@akemi.de 10.08.2022

· Date of previous version:

· Version number of previous

version:

· Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European

Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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

SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1A: Skin sensitisation – Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard — Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard — Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard — Category 3

ΕU