



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

Printing date 06.03.2017

Version number 11




Revision: 06.03.2017

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

- **1.1 Product identifier**
- **Trade name: KEIM MX GLAZE CLEAR (CURE)**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Glazing
- **Uses advised against** Not suitable for use in do-it-yourself applications.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
KEIM MINERAL PAINTS LTD
Santok Building / Deer Park Way, Donnington Wood GB-Telford, Shropshire TF2 7NA
Tel +44 1952 231 250 / Fax +44 1952 231 251
www.keimpaints.co.uk / sales@keimpaints.co.uk
- **Further information obtainable from:**
David Pratt
Telefon: +44 1952 231250
E-Mail: sales@keimpaints.co.uk
- **1.4 Emergency telephone number:**
GBK GmbH Global Regulatory Compliance
Emergency number: +49(0)6132/84463

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

Skin Corr. 1B	H314	Causes severe skin burns and eye damage.
Eye Dam. 1	H318	Causes serious eye damage.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Repr. 1A	H360FD	May damage fertility. May damage the unborn child.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**

GHS05 GHS07 GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:**
3-aminopropyltriethoxysilane
Proprietary silane
dioctyltin dilaurate
dibutylbis(pentane-2,4-dionato-O,O')tin

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Hazard statements

- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H360FD May damage fertility. May damage the unborn child.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

- P260 Do not breathe mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P273 Avoid release to the environment.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P315 Get immediate medical advice/attention.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Restricted to professional users.

2.3 Other hazards**Results of PBT and vPvB assessment**

- PBT:** Not applicable.
- vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

- Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 919-30-2 EINECS: 213-048-4 Index number: 612-108-00-0 Reg.nr.: 01-2119480479-24	3-aminopropyltriethoxysilane ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	50- < 75%
	Proprietary silane ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	25- < 35%
CAS: 3648-18-8 EINECS: 222-883-3	dioctyltin dilaurate ⚠ Repr. 2, H361fd; STOT RE 2, H373; ⚠ Eye Dam. 1, H318; Aquatic Chronic 3, H412	5 - < 10%
CAS: 22673-19-4 EINECS: 245-152-0	dibutylbis(pentane-2,4-dionato-O,O')tin ⚠ Muta. 2, H341; Repr. 1A, H360FD; STOT SE 1, H370; STOT RE 1, H372; ⚠ Skin Corr. 1C, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	< 0.5%

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- **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:**

With appearance of symptoms or in cases of doubt seek medical advice .

Immediately remove any clothing soiled by the product.

When seeing the doctor we suggest to present this safety data sheet.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Do not use solvents or thinners.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Rinse mouth and throat well with water.

Do not induce vomiting; call for medical help 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.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fire with alcohol resistant foam.

· 5.2 Special hazards arising from the substance or mixture

In case of fire, thick, black smoke develops. Inhalation of the dangerous decomposition products may cause serious health damages.

In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

In case of fire, the following can be released:

carbon oxide (CO_x)

Nitrogen oxides (NO_x)

metal oxide

· 5.3 Advice for firefighters

· **Protective equipment:**

Wear fully protective suit.

Wear self-contained respiratory protective device.

· **Additional information**

Cool endangered receptacles with water spray.

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Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
In case of fire do not breathe smoke, fumes and vapours.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes.

Ensure adequate ventilation

Do not inhale fumes.

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Do not allow product to reach soil, sewage system or any water course.

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

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

Clear contaminated areas thoroughly.

Flush rests with sufficient amount of water.

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**

Avoid contact with skin and eyes.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

See item 8 for information about suitable protective equipment and technical precautions. Respect the protection rules.

· **Information about fire - and explosion protection:**

Cool endangered receptacles with water spray.

Fumes can combine with air to form an explosive mixture.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Keep container tightly closed. Do not empty container under pressure, non-pressure vessel! Close opened containers carefully and store upright, to prevent any leakage.

Keep in the original containers in a cool and dry place.

· **Information about storage in one common storage facility:**

Store away from flammable substances.

· **Further information about storage conditions:**

Store at temperatures between 0 °C and 35 °C.

Protect from heat and direct sunlight.

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- Protect from frost.
- **Storage class:** 6.1C
- **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.
- **DNELs** Not available
- **PNECs** Not available
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **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 inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Do not inhale aerosols.
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:** Protective gloves
- **Material of gloves**
suitable material e.g.:
Nitrile rubber, NBR
Neoprene gloves
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:**
Tightly sealed goggles
if applicable face protection
- **Body protection:**
Impervious protective clothing
After contact with skin wash thoroughly with water and apply lotion.
- **Limitation and supervision of exposure into the environment** See Section 12 and 6.2

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:	Fluid
· Colour:	Colourless
· Odour:	Amine-like
· Odour threshold:	Not determined.

· pH-value: Not determined

· Change in condition

· Melting point/freezing point:	Undetermined.
· Initial boiling point and boiling range:	> 37.78 °C

· Flash point: 82 °C (Closed Cup)

· Flammability (solid, gas): Not applicable.

· Ignition temperature: Not determined.

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

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

· Explosion limits:

· Lower:	1.01 Vol %
· Upper:	Not determined.

· Vapour pressure at 20 °C: 0.02 kPa (Proprietary silane)

· Density: Not determined.

· Relative density at 20 °C: 0.97

· Vapour density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with water:

Insoluble.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

· Dynamic: Not determined.

· Kinematic: Not determined.

· 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: Stable under normal conditions of storage and use.

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- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Develops corrosive gases/fumes.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
No hazardous decomposition products if stored and handled as prescribed.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

	ATE mix	2444.2 mg/kg (orally)
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919-30-2 3-aminopropyltriethoxysilane

Oral	LD50	1570 mg/kg (rat)
Dermal	LD50	4000 mg/kg (rabbit)

3648-18-8 dioctyltin dilaurate

Oral	LD50	6450 mg/kg (rat)
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22673-19-4 dibutylbis(pentane-2,4-dionato-O,O')tin

Oral	LD50	>2000 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation**
Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
reduced foetal weight
increase in foetal deaths
skeletal malformations
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**
Adverse symptoms may include the following:
pain
watering
redness
Causes serious eye damage.
- **during inhalation:**
Irritant effect possible.
Exposure to decomposition products may cause a health hazard.
Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

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- **during swallowing:**
harmful
May cause burns to mouth, throat and stomach
Adverse symptoms may include the following:
stomach pains
reduced foetal weight
increase in foetal deaths
skeletal malformations
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **Other information (about experimental toxicology):**
Experimental analysis are not available.
The product was not tested. The statements on toxicology have been derived from the properties of the individual components.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**
May damage fertility. May damage the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
Harmful to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.
- **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential**

919-30-2 3-aminopropyltriethoxysilane

LogPow | 1.7 (not specified)

- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
The product contains materials that are harmful to the environment.
Do not allow product to reach ground water, water course or sewage system.
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods**Recommendation**

Must not be disposed with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

European waste catalogue

08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
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Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agents:** Water, if necessary with cleansing agents.

SECTION 14: Transport information

14.1 UN-Number**ADR, IMDG, IATA** UN3066**14.2 UN proper shipping name****ADR** 3066 PAINT
IMDG, IATA PAINT**14.3 Transport hazard class(es)****ADR, IMDG, IATA****Class** 8 Corrosive substances.**Label** 8**14.4 Packing group****ADR, IMDG, IATA** II**14.5 Environmental hazards:** Not applicable.**14.6 Special precautions for user**

Warning: Corrosive substances.

Danger code (Kemler):

80

EMS Number:

F-A,S-B

Stowage Category

B

Stowage Code

SW2 Clear of living quarters.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

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· Transport/Additional information:**· ADR**

- Limited quantities (LQ)
- Excepted quantities (EQ)

1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

- Transport category
- Tunnel restriction code

2
E

· IMDG

- Limited quantities (LQ)
- Excepted quantities (EQ)

1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

- UN "Model Regulation":

UN 3066 PAINT, 8, II

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
For information on labelling please refer to section 2 of this document.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations:**
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
REACH Annex XVII: This product contains dioctyltin dilaurate > 0.1 wt -%. Annex XVII, entry 20 of Regulation 1907/2006, must be considered.

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
dioctyltin dilaurate	-	-	Repr. 2, H361d (Unborn child)	Repr. 2, H361f (Fertility)
dibutylbis(pentane-2,4-dionato-O,O')tin	-	Muta. 2, H341	Repr. 1B, H360D (Unborn child)	Repr. 1B, H360F (Fertility)
- **Substances of very high concern (SVHC) according to REACH, Article 57** not applicable
- **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.

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· Relevant phrases

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H341 Suspected of causing genetic defects.
- H360FD May damage fertility. May damage the unborn child.
- H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
- H370 Causes damage to organs.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

· Department issuing SDS: KEIMFARBEN Germany, Product safety department**· 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
- 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)
- TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- 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
- EC10: Effective concentration at 10% mortality rate.
- EC50: Half maximal effective concentration.
- LC10: Lethal concentration at 10% mortality rate.
- NOEC: No observed effect concentration.
- REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Corr. 1C: Skin corrosion/irritation – Category 1C
- 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
- Muta. 2: Germ cell mutagenicity – Category 2
- Repr. 1A: Reproductive toxicity – Category 1A
- Repr. 2: Reproductive toxicity – Category 2
- STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
- STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
- 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

· * Data compared to the previous version altered.