



Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 04.10.2010

Revision: 04.10.2010

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** **KEIM Ecotec**
- **Application of the substance / the preparation** Hydrophobing agent/ water repellent
- **Manufacturer/Supplier:**
 KEIM MINERAL PAINTS LTD
 Santok Building
 Deer Park Way
 Donnington Wood
 Telford
 Shropshire
 TF2 7NA
 United Kingdom
 Tel: +44 1952 231250
 Fax: +44 1952 231251
 Url: <http://www.keimpaints.co.uk>
- **Further information obtainable from:**
 David Pratt
 Telefon: +44 1952 231250
 E-Mail: sales@keimpaints.co.uk
- **Information in case of emergency:**
 GBK Gefahrgut Büro GmbH
 Emergency number: +49(0)6132/84463

2 Hazards identification

- **Hazard description:**
 Xi Irritant
- **Information concerning particular hazards for human and environment:**
 R 10 Flammable.
 R 41 Risk of serious damage to eyes.
 R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Classification system:**
 The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Alkylsilicone resin with alkoxy groups

- **Dangerous components:**

CAS: 35435-21-3 EINECS: 252-558-1	Triethoxy(2,4,4-trimethylpentyl)silane R 10-52/53	50-100%
CAS: 67923-07-3 Polymer	Polydimethylsiloxane, (((3-((2-aminoethyl)amino)propyl)silyldiyl)tris(oxy))tris-,methoxy-terminated Xi; R 38-41	10-25%
CAS: 79-09-4 EINECS: 201-176-3	Propionic acid C; R 34	< 1%

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- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information:** 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:**
Wash off immediately with water and soap and rinse well afterwards.
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.

5 Fire-fighting measures

- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:**
Water spray
Water
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
In case of fire, the following can be released:
carbon oxide (CO_x)
Nitrogen oxides (NO_x)
silicon dioxide (SiO₂)
Nitrogen oxides
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information** In case of fire do not breath smoke, fumes and vapours.

6 Accidental release measures

- **Person-related safety precautions:**
Respect the protection rules (see section 7 a. 8).
Particular danger of slipping on leaked/spilled product.
Keep away from ignition sources.
Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Do not allow product to reach soil, sewage system or any water course.
Follow local governmental rules and regulations.
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.
Clear contaminated areas thoroughly.

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7 Handling and storage

- **Handling:**
- **Information for safe handling:**
 - Avoid contact with skin and eyes.
 - Keep receptacles tightly sealed.
 - 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:**
 - Keep ignition sources away - Do not smoke.
 - Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
 - Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from water.
- **Further information about storage conditions:**
 - Store in a cool place.
 - Store in dry conditions.
 - Keep container tightly sealed.
 - Protect from heat and direct sunlight.
 - Protect from frost.
- **Storage class:** 10

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

79-09-4 Propionic acid

WEL	Short-term value: 46 mg/m ³ , 15 ppm
	Long-term value: 31 mg/m ³ , 10 ppm

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Do not eat, drink, smoke or sniff while working.
 - 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.
- **Respiratory protection:**
 - Use suitable respiratory protective device only when aerosol or mist is formed.
 - Combination filter A/P
- **Protection of hands:** Protective gloves
- **Material of gloves**
 - suitable material e.g.:
 - Butyl rubber, BR
 - Recommended thickness of the material: ≥ 0.5 mm
 - 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

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- advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
Value for the permeation: Level \geq 3 (60 min)
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
 - **Eye protection:** Tightly sealed goggles
 - **Body protection:** Protective work clothing

9 Physical and chemical properties

· General Information

Form:	Fluid
Colour:	Yellowish
Odour:	Weak, characteristic

· Change in condition

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

· Flash point:	25°C (DIN 53213)
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· Ignition temperature:	265 °C
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· Self-igniting:	Product is not selfigniting.
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· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
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· Explosion limits:

Lower:	Not determined
Upper:	Not determined

· Vapour pressure:	Not determined
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· Density at 20°C:	1* g/cm ³
· Vapour density	Not applicable
· Evaporation rate	Not applicable

· Solubility in / Miscibility with water:

Fully miscible.

· pH-value at 20°C:	5 - 6*
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· Segregation coefficient (n-octanol/water):	Not applicable
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· Viscosity:

Dynamic at 20°C:	1 - 10* mPas (DIN 51562)
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· Additional information:

* The values are for freshly produced material and may change with the time.
Explosion limits for released ethanol: 3,5 - 15% (V).

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* 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Materials to be avoided:** water
- **Dangerous reactions** Reacts with water.
- **Dangerous decomposition products:**
In case of fire, the following can be released:
carbon oxide (COx)
Nitrogen oxides (NOx)
silicon dioxid (SiO2)
Nitrogen oxides
No hazardous decomposition products if stored and handled as prescribed.

* 11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values relevant for classification:** Not determined
- **Primary irritant effect:**
- **on the skin:** Frequent persistent contact with the skin may cause skin irritation.
- **on the eye:**
Risk of serious damage to eyes.
Strong irritant with the danger of severe eye injury.
- **during swallowing:** Irritant effect possible
- **Sensitization:** No sensitizing effects known.
- **Other information (about experimental toxicology):**
Experimental analysis are not available.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

* 12 Ecological information

- **Ecotoxicological effects:**
- **Aquatic toxicity:**
May cause long-term adverse effects in the aquatic environment.
Harmful to aquatic organisms.
- **Other information:**
In appropriate sewage treatment plants an extensively elimination off water due to biological degrading, mechanical separation and stripping.
- **Additional ecological information:**
- **AOX-indication:**
Due to the substance of content which do not include organic jointed halogens, the product can not take influence on the AOX-load of the waste water.
- **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 76/464 EC:**
According to our current data base the product does not consist of any heavy metals or substances of EU-directives 76/464/EWG.

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- **General notes:**

At present there are no ecotoxicological assessments.

The product may not be released into the environment without control.

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

13 Disposal considerations

- **Product:**

- **Recommendation** Disposal must be made according to official regulations.

- **European waste catalogue**

07 01 99	wastes not otherwise specified
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- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 3 Flammable liquids.

- **Danger code (Kemler):** 30

- **UN-Number:** 1993

- **Packaging group:** III

- **Hazard label:** 3

- **Description of goods:** 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS ALKYLALKOXYSILANE), special provision 640E

- **Limited quantities (LQ)** LQ7

- **Transport category** 3

- **Tunnel restriction code** D/E

- **Maritime transport IMDG:**



- **IMDG Class:** 3

- **UN Number:** 1993

- **Label** 3

- **Packaging group:** III

- **EMS Number:** F-E,S-E

- **Marine pollutant:** NO

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- **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (CONTAINS ALKYLALKOXYSILANE)

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1993
- **Label:** 3
- **Packaging group:** III
- **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (CONTAINS ALKYLALKOXYSILANE)

15 Regulatory information

- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- **Code letter and hazard designation of product:**

Xi Irritant

- **Risk phrases:**

10 Flammable.
 41 Risk of serious damage to eyes.
 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Safety phrases:**

7/9 Keep container tightly closed and in a well-ventilated place.
 23 Do not breathe fumes/aerosol.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 39 Wear eye/face protection.
 51 Use only in well-ventilated areas.

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.

- **Relevant R-phrases**

10 Flammable.
 34 Causes burns.
 38 Irritating to skin.
 41 Risk of serious damage to eyes.
 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Department issuing MSDS:** Product safety department

- **Contact:** Mrs. Popescu