

Safety Data Sheet

according to 1907/2006/EC, Article 31



Printing date 15.09.2010

Revision: 15.09.2010

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

- **Product details**
- **Trade name:** **KEIM I&F-Grund**
- **Application of the substance / the preparation** Colourless liquid blocking primer.
- **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
 F Highly flammable
- **Information concerning particular hazards for human and environment:**
 Has a narcotizing effect.
 R 11 Highly flammable.
 R 36 Irritating to eyes.
 R 67 Vapours may cause drowsiness and dizziness.
- **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:** Preparation based on synthetic resin and organic solvents

- **Dangerous components:**

CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate	Xi, F; R 11-36-66-67	25-50%
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol	Xi, F; R 11-36-67	10-25%

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CAS: 123-86-4 EINECS: 204-658-1	n-butyl acetate	R 10-66-67	10-25%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate	R 10	2.5-10%
CAS: 64-17-5 EINECS: 200-578-6	ethanol	F; R 11	2.5-10%
CAS: 78-83-1 EINECS: 201-148-0	butanol	Xi; R 10-37/38-41-67	2.5-10%

· **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.
In case of unconsciousness place patient stably in side position for transportation.

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

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, 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, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards caused by the substance, its products of combustion or resulting gases:**

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

In case of fire, the following can be released:

carbon oxide (CO_x)

Nitrogen oxides (NO_x)

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

· **Additional information**

Cool endangered receptacles with water spray.

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

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

In case of fire do not breath smoke, fumes and vapours.

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6 Accidental release measures

- **Person-related safety precautions:**

- Keep away from ignition sources.
- Ensure adequate ventilation
- Do not inhale fumes.
- Respect the protection rules (see section 7 a. 8).
- 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.

- **Measures for cleaning/collecting:**

- Dispose contaminated material as waste according to item 13.
- Absorb with non-combustible liquid-binding material (sand, diatomite, vermiculite).
- Ensure adequate ventilation.
- Dispose of the material collected according to regulations.
- Clear contaminated areas thoroughly.

7 Handling and storage

- **Handling:**

- **Information for safe handling:**

- Keep receptacles tightly sealed.
- Prevent formation of aerosols.
- Ensure good ventilation/exhaustion at the workplace.
- Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- Avoid contact with skin and eyes.
- See item 8 for information about suitable protective equipment and technical precautions.
- Respect the protection rules.

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

- Fumes can combine with air to form an explosive mixture.
- Use explosion-proof apparatus / fittings and spark-proof tools.
- Use only in explosion protected area.
- 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.
- Keep container tightly closed . Do not empty container under pressure, non-pressure vessel ! Close opened containers carefully and store upright, to prevent any leakage.
- Store in a cool location.

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

- Do not store together with alkalis (caustic solutions).
- Do not store together with oxidizing and acidic materials.

- **Further information about storage conditions:**

- Store receptacle in a well ventilated area.
- Protect from frost.
- Protect from heat and direct sunlight.
- Please note information on label
- Keep container tightly sealed.

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· Storage class: 3A

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:**

141-78-6 ethyl acetate

WEL	Short-term value: 400 ppm
	Long-term value: 200 ppm

67-63-0 propan-2-ol

WEL	Short-term value: 1250 mg/m ³ , 500 ppm
	Long-term value: 999 mg/m ³ , 400 ppm

123-86-4 n-butyl acetate

WEL	Short-term value: 966 mg/m ³ , 200 ppm
	Long-term value: 724 mg/m ³ , 150 ppm

108-65-6 2-methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m ³ , 100 ppm
	Long-term value: 274 mg/m ³ , 50 ppm
	Sk

64-17-5 ethanol

WEL	Long-term value: 1920 mg/m ³ , 1000 ppm
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78-83-1 butanol

WEL	Short-term value: 231 mg/m ³ , 75 ppm
	Long-term value: 154 mg/m ³ , 50 ppm

- **Additional information:** The lists valid during the making 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.
 Avoid contact with the eyes and skin.
 Do not inhale aerosols.

- **Respiratory protection:**

Use suitable respiratory protective device only when aerosol or mist is formed.
 Combination filter AX-P

- **Protection of hands:** Protective gloves

- **Material of gloves**

suitable material e.g.:

Fluorocarbon rubber (Viton)

Recommended thickness of the material: ≥ 0.4 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 advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

Value for the permeation: Level ≥ 6 (480 min)

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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:**
if applicable face protection
Tightly sealed goggles
- **Body protection:**
Protective work clothing
After contact with skin wash thoroughly with water.

9 Physical and chemical properties

· General Information

Form:	Fluid
Colour:	Colourless
Odour:	Solvent-like

· Change in condition

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	> 35°C

· **Flash point:** < 7°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

Oxidizing properties Not applicable.

· **Vapour pressure at 50°C:** <1100 hPa

· **Density at 20°C:** 0.9* g/cm³
 · **Vapour density** non-applicable
 · **Evaporation rate** non-applicable

· **Solubility in / Miscibility with water:**

Partly soluble.

· **pH-value:** Not determined

· **Segregation coefficient (n-octanol/water):** non-applicable

· Viscosity:

Kinematic at 20°C: 20* s (DIN 53211/4)

· **Solvent separation test:** <3 % (20°C)

· Additional information:

* The values are for freshly produced material and may change with the time.

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

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- **Materials to be avoided:**
 - Bases
 - oxidizing agents
 - Acids
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:**
 - In case of fire, the following can be released:
 - carbon oxide (COx)
 - Nitrogen oxides (NOx)
 - No hazardous decomposition products if stored and handled as prescribed.

11 Toxicological information

- **Acute toxicity:**
 - **LD/LC50 values relevant for classification:**
- | 141-78-6 ethyl acetate | | |
|------------------------|----------|---------------------|
| Oral | LD50 | 5620 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 1600 mg/l (rat) |
- **Primary irritant effect:**
 - **on the skin:** Frequent persistent contact with the skin may cause skin irritation.
 - **on the eye:** Irritating effect.
 - **during inhalation:** Vapours may cause drowsiness and dizziness.
 - **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

- **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.
- **General notes:**
 - At present there are no ecotoxicological assessments.
 - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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13 Disposal considerations

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

- **European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

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



- **ADR/RID class:** 3 Flammable liquids.
- **Danger code (Kemler):** 33
- **UN-Number:** 1263
- **Packaging group:** II
- **Hazard label:** 3
- **Description of goods:** 1263 PAINT, special provision 640D
- **Limited quantities (LQ)** LQ6
- **Transport category** 2
- **Tunnel restriction code** D/E

- **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1263
- **Label** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-E
- **Marine pollutant:** NO
- **Proper shipping name:** PAINT

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



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1263
- **Label** 3

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- **Packaging group:** II
- **Proper shipping name:** PAINT

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
F Highly flammable
- **Risk phrases:**
11 Highly flammable.
36 Irritating to eyes.
67 Vapours may cause drowsiness and dizziness.
- **Safety phrases:**
2 Keep out of the reach of children.
16 Keep away from sources of ignition - No smoking.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
33 Take precautionary measures against static discharges.
35 This material and its container must be disposed of in a safe way.
37/39 Wear suitable gloves and eye/face protection.
46 If swallowed, seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.
64 If swallowed, rinse mouth with water (only if the person is conscious).

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.
11 Highly flammable.
36 Irritating to eyes.
37/38 Irritating to respiratory system and skin.
41 Risk of serious damage to eyes.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.
- **Department issuing MSDS:** Product safety department
- **Contact:** Mrs. Popescu