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

- 1.1 Product identifier
  - Trade name: KEIM INNOSTAR

- 1.2 Relevant identified uses of the substance or mixture and uses advised against
  - Application of the substance / the mixture: Sol-silicate paint for interior use.
  - Uses advised against: All other uses are not recommended.

- 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.keim.com / 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
    The product is not classified, according to the CLP regulation.

- 2.2 Label elements
  - Labelling according to Regulation (EC) No 1272/2008: Void
  - Hazard pictograms: Void
  - Signal word: Void
  - Hazard statements: Void

- 2.3 Other hazards
  - Alkaline product. Avoid contact with skin and eyes.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
  - Description: Aqueous solution of amorphous silica, organically modified, fillers and pigments.

- Dangerous components:
  - 12001-26-2 | Mica | substance with a Community workplace exposure limit ≤2.5%
SECTION 4: First aid measures

- 4.1 Description of first aid measures
  - General information:
    No special measures required.
    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:
    Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

- 5.2 Special hazards arising from the substance or mixture
  No further relevant information available.

- 5.3 Advice for firefighters
  - Protective equipment: Wear self-contained respiratory protective device.
  - Additional information
    Cool endangered receptacles with water spray.
    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
  Ensure adequate ventilation
  Avoid contact with skin and eyes.
  Particular danger of slipping on leaked/spilled product.
  Respect the protection rules (see section 7 a. 8).

- 6.2 Environmental precautions:
  Do not allow product to reach soil, sewage system or any water course.
  Follow local governmental rules and regulations.
Safety data sheet
according to 1907/2006/EC, Article 31

TRADE NAME: KEIM INNOSTAR

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Dispose of the material collected according to regulations.
Clear contaminated areas thoroughly.

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.
Avoid contact with skin and eyes.
Do not inhale aerosols.
Ensure good ventilation/exhaustion at the workplace.
See item 8 (8.2) for information about suitable protective equipment and technical precautions.
Respect the protection rules.

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:
Keep in the original containers in a cool and dry place.
Store only in unopened original receptacles.

Information about storage in one common storage facility: Do not store together with acids.

Further information about storage conditions:
Store in a cool place.
Protect from frost.
Protect from heat and direct sunlight.

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:

12001-26-2 Mica

<table>
<thead>
<tr>
<th>WEL</th>
<th>Long-term value: 10° 0.8** mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>*total inhalable **respirable</td>
</tr>
</tbody>
</table>

Additional information: The lists valid during the making were used as basis.
Safety data sheet according to 1907/2006/EC, Article 31

Trade name: KEIM INNOSTAR

8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
  Avoid contact with the eyes and skin.
  Do not inhale aerosols.
  Wash hands before breaks and at the end of work.
  Immediately remove all soiled and contaminated clothing
- Respiratory protection:
  Use suitable respiratory protective device only when aerosol or mist is formed.
  Filter: P2
- Protection of hands: Protective gloves
- Material of gloves
  suitable material e.g.:
  Nitrile impregnated cotton-gloves
  Recommended thickness of the material: ≥ 0.5 mm
  Nitrile rubber, NBR
  Recommended thickness of the material: ≥ 0.4 mm
  Butyl rubber, BR
  Recommended thickness of the material: ≥ 0.7 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)
  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.
  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
- Body protection: Protective work clothing
- Limitation and supervision of exposure into the environment See Section 12 and 6.2

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General information
- Appearance:
  - Form: Pasty
  - Colour: Different, according to colouring.
  - Odour: Odourless
  - Odour threshold: Not determined.
- pH-value at 20 °C: ~11*
Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: KEIM INNOSTAR

(Contd. of page 4)

- Change in condition
  Melting point/freezing point: Undetermined.
  Initial boiling point and boiling range: \(~100 {^\circ}C\)
- Flash point: Not applicable.
- 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: Not applicable.
  Upper: Not applicable.
- Oxidising properties Not applicable.
- Vapour pressure at 20 {^\circ}C: \(~23 \text{ hPa}\)
- Density at 20 {^\circ}C: 1.4-1.6* g/cm³
  Relative density Not determined.
  Vapour density Not applicable.
  Evaporation rate Not applicable.
- Solubility in / Miscibility with water: Fully miscible.
- Partition coefficient: n-octanol/water: Not applicable.
- Viscosity:
  Dynamic at 20 {^\circ}C: 3000-4500* mPas
  Kinematic: Not determined.
- 9.2 Other information * The values are for freshly produced material and may change with the time.

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.
- Thermal decomposition / conditions to be avoided:
  No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: Acids

(Contd. on page 6)
Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: KEIM INNOSTAR

· 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.
  · Primary irritant effect:
    · Skin corrosion/irritation Frequent persistent contact with the skin may cause skin irritation.
    · Serious eye damage/irritation In case of longer exposure, irritating effect is possible.
  · during inhalation: Irritant effect possible.
  · during swallowing: Irritant effect possible
  · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
  · 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 (carcinogenicity, mutagenicity and toxicity for reproduction) not applicable
    · 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 Based on available data, the classification criteria are not met.
    · 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: No further relevant information available.
  · 12.2 Persistence and degradability No further relevant information available.
  · 12.3 Bioaccumulative potential No further relevant information available.
  · 12.4 Mobility in soil No further relevant information available.
  · 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. 2006/11/EC:
      The product contains TiO2.
    · General notes:
      At present there are no ecotoxicological assessments.
      Do not allow product to reach ground water, water course or sewage system.
      Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
    · 12.5 Results of PBT and vPvB assessment
      · PBT: Not applicable.
      · vPvB: Not applicable.
**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date: 17.04.2018          Version number: 4          Revision: 17.04.2018

**Trade name:** KEIM INNOSTAR

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

### 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.

<table>
<thead>
<tr>
<th>European waste catalogue</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 01 12</td>
</tr>
</tbody>
</table>

- **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: Void
- **14.2 UN proper shipping name**
  - ADR, IMDG, IATA: Void
- **14.3 Transport hazard class(es)**
  - ADR, IMDG, IATA:
    - Class: Void
- **14.4 Packing group**
  - ADR, IMDG, IATA: 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.
- **Transport/Additional information:**
  - No dangerous good in sense of these transport regulations.
- **UN "Model Regulation":**
  - Void

(Contd. of page 6)

(Contd. on page 8)
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.
- National regulations:
  - Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
  - Other regulations, limitations and prohibitive regulations
  - 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.

- 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)
  VOC: Volatile Organic Compounds (USA, EU)
  PBT: Persistent, Bioaccumulative and Toxic
  SVHC: Substances of Very High Concern
  vPvB: very Persistent and very Bioaccumulative
- * Data compared to the previous version altered.