

**SAFETY DATA SHEET**

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

1.1 Product identifier

- Product Name: Release Agent

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/mixture: Facilitating the clean detachment of imprinting mats from freshly placed concrete
- Use Advised against: No information available

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: PICS Ltd
- Address of Supplier: Unit 2 & 4  
Red Shute Hill Ind Estate  
Hermitage  
Newbury  
Berkshire  
RG18 9QL  
UK
- Telephone: +44 (0) 1635 202224
- Email: Info@picsuk.com

1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 1635 202224  
(office hours only Mon– Fri 08:00 – 17:30)

**SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Not Classified
- Additional information: For full text of Hazard- and EU Hazard-statements: see section 16

2.2 Label elements

- Symbols: None
- Signal word: None
- Hazard statements: None
- Precautionary statements: None
- Supplemental hazard information (EU): EUH210 – Safety data sheet available on request

2.3 Other hazards

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

**SECTION 3: Composition/information on ingredients**

3.1 Substances

3.2 Mixtures

Chemical Name	Conc.	CAS No.	EC No.	Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]	REACH Registration Number	WEL/O EL
talca (Mg3H2(SiO3)4)	-	14807-96-6	238-877-9	Not Classified	-	Yes
iron oxides	-	-	-	Not Classified	-	Yes
aluminium oxides	-	-	-	Not Classified	-	Yes

**SECTION 4: First aid measures**

4.1 Description of first aid measures

- Contact with eyes: If substance has got into eyes, immediately wash out with plenty of water for several minutes. Irrigate eyes thoroughly whilst lifting eyelids. If eye irritation persists: Get medical advice/attention.
- Contact with skin: Wash affected area with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

- Ingestion: Rinse mouth with water (do not swallow). Do NOT induce vomiting. If you feel unwell, seek medical advice (show label where possible).
  - Inhalation: Remove patient to fresh air. Keep warm and at rest, in a half upright position. Loosen clothing. Get medical advice/attention.
- 4.2 Most important symptoms and effects, both acute and delayed
- Contact with eyes: May cause redness and irritation.
  - Contact with skin: May cause skin irritation.
  - Ingestion: May cause gastro-intestinal irritation. May cause irritation of the throat.
  - Inhalation: May cause respiratory tract irritation. May cause breathing difficulty.
- 4.3 Indication of any immediate medical attention and special treatment needed
- Treat symptomatically.
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## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

- In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

- May form explosive dust/air mixtures.

### 5.3 Advice for firefighters

- Collect contaminated fire extinguishing water separately. This MUST not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.
  - Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.
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## **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

- Rescuers should take suitable precautions to avoid becoming casualties themselves.
- Personal precautions for non-emergency personnel: Avoid contact with skin and eyes; Wear protective clothing as per Section 8; Wash thoroughly after handling.
- Personal precautions for emergency responders: Evacuate the area and keep personnel upwind; Wear chemical protection suit; Wear self-contained breathing apparatus (SCBA).

### 6.2 Environmental precautions

- Do not allow to enter public sewers and watercourses.
- If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities.

### 6.3 Methods and material for containment and cleaning up

- The use of water is not recommended as the product will make surfaces slippery when wet.
- Use vacuum cleaner to collect spilled material.
- Place in appropriate container.
- Seal containers and label them.
- Remove contaminated material to safe location for subsequent disposal.
- Dispose of contents/container to an authorised waste collection point.

### 6.4 Reference to other sections

- See Section(s) 7, 8 & 13.
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## **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

- Avoid raising dust.
- Use only in well ventilated areas.
- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines.
- In case of inadequate ventilation wear respiratory protection.

### 7.2 Conditions for safe storage, including any incompatibilities

- Store in a dry place. Store in a closed container.

### 7.3 Specific end use(s)

- Coloured powder release agent.

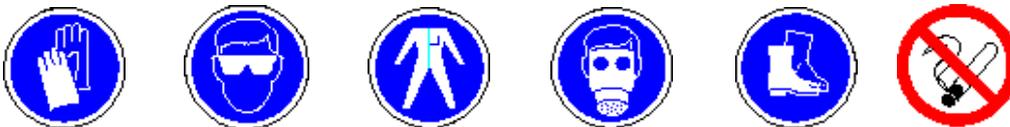
**SECTION 8: Exposure controls/personal protection**

8.1 Control parameters

- Talc (Mg3H2(SiO3)4)  
WEL (long term) 1 mg/m<sup>3</sup> (respirable dust, UK)  
DNEL (inhalation) 2.16 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects  
DNEL (inhalation) 2.16 mg/m<sup>3</sup> Industry, Acute/Short Term, Systemic Effects  
DNEL (inhalation) 3.6 mg/m<sup>3</sup> Industry, Long Term, Local Effects  
DNEL (inhalation) 3.6 mg/m<sup>3</sup> Industry, Acute/Short Term, Local Effects  
DNEL (dermal) 43.2 mg/kg (bw/day) Industry, Long Term, Systemic Effects  
DNEL (dermal) 4.54 mg/cm<sup>2</sup> Industry, Long Term, Local Effects  
DNEL (inhalation) 1.08 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects  
DNEL (inhalation) 1.08 mg/m<sup>3</sup> Consumer, Acute/Short Term, Systemic Effects  
DNEL (inhalation) 1.8 mg/m<sup>3</sup> Consumer, Long Term, Local Effects  
DNEL (inhalation) 1.8 mg/m<sup>3</sup> Consumer, Acute/Short Term, Local Effects  
DNEL (dermal) 21.6 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
DNEL (dermal) 2.27 mg/cm<sup>2</sup> Consumer, Long Term, Local Effects  
DNEL (oral) 160 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
DNEL (oral) 160 mg/kg (bw/day) Consumer, Acute/Short Term, Systemic Effects  
PNEC aqua (freshwater) 597.97 mg/l  
PNEC aqua (intermittent releases, freshwater) 597.97 mg/l  
PNEC aqua (marine water) 141.26 mg/l  
PNEC aqua (intermittent releases, marine water) 141.26 mg/l  
PNEC sediment (freshwater) 31.33 mg/kg  
PNEC sediment (marine water) 3.13 mg/kg
- Aluminium oxides  
WEL (long term) 10 mg/m<sup>3</sup> (inhalable dust, UK)  
WEL (long term) 4 mg/m<sup>3</sup> (respirable dust, UK)  
DNEL (inhalational) 15.63 mg/m<sup>3</sup> Industry, Long Term, Local Effects  
DNEL (inhalational) 15.63 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects  
DNEL (oral) 3.29 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
PNEC (STP) 20 mg/l
- Iron oxides  
WEL (long term): (iron salts as Fe) 1 mg/m<sup>3</sup> (UK)  
WEL (short term): (iron salts as Fe) 2 mg/m<sup>3</sup> (UK)

8.2 Exposure controls

- Selection and use of personal protective equipment should be based on a risk assessment of exposure potential.
- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask.
- Where reusable half mask respirator is required, use EN 140 mask and EN 143 particle filter, or EN 1827.
- Where a full face mask respirator is required, use EN 136, with particle filter EN 143.
- Wear safety glasses approved to standard EN 166.
- Wear suitable protective clothing.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.
- Do not eat, drink or smoke when using this product.



**SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

- Appearance: Powder; coloured
- Odour: None.
- Odour threshold: No information available.
- pH: 7 – 10 (at 10% wt in water dispersion)
- Melting point/freezing point: >145°C
- Initial boiling point and range: Not applicable
- Flashpoint: Not applicable
- Evaporation rate: No information available.
- Flammability (solid gas): No information available.
- Upper/lower flammability or explosive limits: Not information available.
- Vapour pressure: Not applicable.
- Vapour density: Not applicable.

- Relative density: 2 – 3 g/cm<sup>3</sup>
- Solubility(ies): Partly soluble in water
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition temperature: No information available
- Decomposition temperature: No information available
- Viscosity: Not applicable
- Explosive properties: May form explosive dust/air mixtures
- Other oxidising properties: Not oxidising.

**9.2 Other information**

- No information available.
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**SECTION 10: Stability and reactivity****10.1 Reactivity**

- No hazardous reactions known if used for its intended purpose.

**10.2 Chemical stability**

- Considered stable under normal conditions.

**10.3 Possibility of hazardous reactions**

- May form explosive dust/air mixtures.

**10.4 Conditions to avoid**

- Avoid formation of dust.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Keep away from moist air or water.

**10.5 Incompatible materials**

- Considered stable under normal conditions.

**10.6 Hazardous decomposition products**

- Decomposition products may include toxic and irritant fumes.
  - Decomposition products may include carbon oxides.
  - Decomposition products may include calcium oxides.
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**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

- Acute toxicity:  
Based on available data, the classification criteria are not met  
LD50 (oral, rat) (talc) 3870 – 5000 mg/kg  
LC50 (inhalation, rat) (talc) 2.1 mg/l/4h  
LD50 (dermal, rat) (talc) 2000 mg/kg bw
- Skin corrosion/irritation  
Based on available data, the classification criteria are not met.
- Serious eye damage/irritation  
Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation  
Based on available data, the classification criteria are not met.
- Germ cell mutagenic effects  
No evidence of mutagenic effects.
- Carcinogenicity  
No evidence of carcinogenic effects.
- Reproductive toxicity  
No evidence of reproductive effects.
- Specific target organ toxicity (STOT) – single exposure  
Based on available data, the classification criteria are not met.
- Specific target organ toxicity (STOT) – repeated exposure  
Based on available data, the classification criteria are not met.  
NOAEL (oral, rat) (talc) 100 mg/kg bw/day  
NOAEL (dermal, rat) (talc) 12.5 mg/cm<sup>2</sup>  
NOAEC (inhalation, rat) (talc) 10.8 mg/m<sup>3</sup>
- Aspiration hazard  
Based on available data, the classification criteria are not met.
- Contact with eyes  
May cause redness and irritation.
- Contact with skin  
May cause skin irritation  
prolonged handling can cause drying of the skin.

- Ingestion  
May cause irritation of the throat.
  - Inhalation  
May cause shortness of breath.
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**SECTION 12: Ecological information**

## 12.1 Toxicity

- Based on available data, the classification criteria are not met.
- Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)  
LC50 (fish) 89.581 g/l (4 days)  
LC50 (aquatic invertebrates) 36.812 g/l (18 hr)  
EC50 (aquatic algae) 7.203 g/l (4 days)

## 12.2 Persistence and degradability

- Not readily biodegradable.

## 12.3 Bioaccumulative potential

- BCF (talc) 3.16 L/kg (ww)

## 12.4 mobility in soil

- No information available.

## 12.5 Results of the PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII.
- Not a vPvB according to REACH Annex XIII.

## 12.6 Other adverse effects

- No information available.
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**SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation.
- Dispose of contents/container to an authorised waste collection point.

## 13.2 Classification

- The waste must be identified according to the list of wastes (2000/532/EC)
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**SECTION 14: Transport information**

Not classified as hazardous transport.

## 14.1 UN number:

- UN No.: Not applicable.

## 14.2 UN proper shipping name

- Proper Shipping Name: Not applicable.

## 14.3 Transport hazard class(es)

- Hazard Class: Not applicable.

## 14.4 Packing group:

- Packing group: Not applicable.

## 14.5 Environmental hazards

- Not applicable.

## 14.6 Special precautions for user

- No special precautions are required for this product

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

- Not applicable
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**14.8 Road/Rail (ADR/RID)**

- Proper shipping name: Not applicable.
- ADR UN No.: Not applicable.
- ADR hazard class: Not applicable.
- ADR packing group: Not applicable.
- Tunnel code: Not applicable.

**14.9 Sea (IMDG)**

- Proper shipping name: Not applicable.
- IMDG UN No.: Not applicable.
- IMDG Hazard Class: Not applicable.
- IMDG Pack Group: Not applicable.

**14.10 Air (ICAO/IATA)**

- Proper Shipping Name: Not applicable.
- ICAO UN No.: Not applicable.
- ICAO Hazard Class: Not applicable.
- ICAO Packing Group: Not applicable.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- This safety, health and environmental regulations/legislation specific for the substance or mixture.
- This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 as amended by Regulation (EU) 2015/830
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe.

**15.2 Chemical Safety Assessment**

- A REACH chemical safety assessment has not been carried out.

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**SECTION 16: Other information**

The above information is believed to be correct but does not purport to be all inclusive and shall only be used as a guide. The company will not be held liable for any damage resulting from handling or from contact with this product.

Sources of data: Information from published literature and internal company data.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

- Not classified.

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

- None assigned.

Acronyms:

- CAS: Chemical Abstracts Service
- DNEL: Derived No-Effect Level
- EC: European Community
- EC50: Effective Concentration, 50%
- GHS: Globally Harmonised System
- LC50: Lethal Concentration, 50%
- LD50: Lethal Dose, 50%
- NOAEL: No observed adverse effect level
- OEL: Occupational Exposure Limit
- PBT: Persistent, Bioaccumulative and Toxic
- PNEC: Predicted No-Effect Concentration
- REACH: Registration, Evaluation, Authorisation and restriction of Chemicals.
- STOT RE: Specific Target Organ Toxicity Repeated Exposure.
- STOT SE: Specific Target Organ Toxicity Single Exposure.
- vPvB: very Persistent and very Bioaccumulative.
- WEL: Workplace Exposure Limit

--End of Safety Data Sheet--