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

1.1 Product identifier
Slate Lite Special Impregnator

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

Relevant identified uses
Mixture Impregnation, aqueous solution

1.3 Supplier (manufacturer/importer/only representative/downstream user/distributor)

Contact:

Supplier: R & D GmbH
Street: Boschstr. 12
Postal code/city: 53359 Rheinbach
Telephone: 02226 829930
Telefax: Technical Department
Contact: E-mail: info@slate-lite.com
Emergency telephone number:
+49 (2226) 899930299930
(Only available during office hours)

1.4 Emergency telephone number
see section 1.3

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Additional information
The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

Remark
Full text of H- and EUH-statements: see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Special rules for supplemental label elements for certain mixtures
EUH210 Safety data sheet available on request.

2.3 Other hazards
None

2.4 Additional information
see section 12.5

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients
PROPAN-2-OL ; REACH No. : 01-2119457558-25-xxxx ; EC No. : 200-661-7; CAS No. : 67-63-0
Weight fraction : ≥ 1 - < 5 %
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

This mixture contains the following substances of very high concern (SVHC) which are included in the
Candidate List according to Article 59 of REACH
None (below the concentration limit)

This mixture contains the following substances of very high concern (SVHC) which are subject to
authorisation according to Annex XIV of REACH
None (below the concentration limit)

Additional information
All ingredients of this mixture are (pre)registered according to REACH regulation.
Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information
When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious
person or a person with cramps. If unconscious place in recovery position and seek medical advice.

Following inhalation
Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

In case of skin contact
After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated
clothing, shoes or stockings. Do not wash with: Cleaning agent, acidic Cleaning agent, alkaline Solvents/Thinner

After eye contact
Rinse immediately carefully and thoroughly with eye-bath or water. Protect uninjured eye. In case of eye irritation
consult an ophthalmologist.

After ingestion
When in doubt or if symptoms are observed, get medical advice. Rinse mouth thoroughly with water. Do NOT induce
vomiting.

Self-protection of the first aider
First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed
No information available.

4.3 Indication of any immediate medical attention and special treatment needed
None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water spray jet ABC-powder Foam

Unsuitable extinguishing media
Full water jet Strong water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products
Carbon monoxide Carbon dioxide (CO2) Hydrogen fluoride Fluoropolymers

5.3 Advice for firefighters

Use suitable breathing apparatus.

Special protective equipment for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to
enter drains or water courses. Do not inhale explosion and combustion gases. The product itself does not burn. Co-
dordinate fire-fighting measures to the fire surroundings.
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment (refer to section 8). Provide adequate ventilation. Remove persons to safety.

6.2 Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up
For cleaning up
Suitable material for taking up: Universal binder
Clean contaminated articles and floor according to the environmental legislation.

Other information
Clear spills immediately.

6.4 Reference to other sections
Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling
When using do not eat, drink, smoke, sniff.
Protective measures
not useable after freezing. Inhalation of vapours or spray/mists Skin contact Eye contact Wear personal protection equipment (refer to section 8). Always close containers tightly after the removal of product. Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Technical measures and the application of suitable work processes have priority over personal protection equipment.

Measures to prevent fire
The product is not: Flammable Usual measures for fire prevention.
Fire class :-
Shake well before use No

Advices on general occupational hygiene
P362+P364 - Take off contaminated clothing and wash it before reuse.

7.2 Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Keep container tightly closed. Keep/Store only in original container. The floor should be leak tight, jointless and not absorbent. Ensure adequate ventilation of the storage area.

Hints on joint storage
Storage class (TRGS 510) : 10
Recommended storage temperature 5 - 25 °C
Protect from frost Yes

Further information on storage conditions
Keep locked up and out of reach of children. Keep container tightly closed in a cool, well-ventilated place.
Protect against : Frost

7.3 Specific end use(s)
Recommendation
Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Occupational exposure limit values

PROPAN-2-OL ; CAS No. : 67-63-0

- **Limit value type (country of origin):** TRGS 900 ( D )
  - Limit value : 200 ppm / 500 mg/m³
  - Peak limitation : 2(II)
  - Remark : Y
  - Version : 29.03.2019

- **Limit value type (country of origin):** TRGS 903 ( D )
  - Parameter : Acetone / Whole blood (B) / End of exposure or end of shift
  - Limit value : 25 mg/l
  - Version : 29.03.2019

PYRIDINE-2-SH; CAS No. : 105-10-6

- **Limit value type (country of origin):** TRGS 900 ( D )
  - Parameter : E: inhalable fraction
  - Limit value : 1 mg/m³
  - Peak limitation : 2(II)
  - Remark : H, Z
  - Version : 01.03.2018

DNEL-/PNEC-values

DNEL/DMEL

PROPAN-2-OL ; CAS No. : 67-63-0

- **Limit value type:** DNEL Consumer (systemic)
  - Exposure route : Dermal
  - Exposure frequency : Long-term
  - Limit value : 319 mg/kg/d

- **Limit value type:** DNEL Consumer (systemic)
  - Exposure route : Inhalation
  - Exposure frequency : Long-term
  - Limit value : 89 mg/m³

- **Limit value type:** DNEL Consumer (systemic)
  - Exposure route : Oral
  - Exposure frequency : Long-term
  - Limit value : 26 mg/kg/d

- **Limit value type:** DNEL worker (systemic)
  - Exposure route : Dermal
  - Exposure frequency : Long-term
  - Limit value : 888 mg/kg/d

- **Limit value type:** DNEL worker (systemic)
  - Exposure route : Inhalation
  - Exposure frequency : Long-term
  - Limit value : 500 mg/m³

PNEC

PROPAN-2-OL ; CAS No. : 67-63-0

- **Limit value type:** PNEC (Aquatic, freshwater)
  - Limit value : 140,9 mg/l

- **Limit value type:** PNEC (Aquatic, intermittent release)
  - Limit value : 140,9 mg/l

- **Limit value type:** PNEC (Aquatic, marine water)
  - Limit value : 140,9 mg/l

- **Limit value type:** PNEC (Sediment, freshwater)
  - Limit value : 552 mg/kg

- **Limit value type:** PNEC (Sediment, marine water)
**Limit values:**

- **Limit value:** 552 mg/kg
- **Limit value type:** PNEC (Secondary poisoning)
- **Limit value:** 160 mg/kg
- **Limit value type:** PNEC (Sewage treatment plant)
- **Limit value:** 2251 mg/l

### 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation of the storage area. Technical measures and the application of suitable work processes have priority over personal protection equipment.

#### Personal protection equipment

**Eye/face protection**

Usually no personal eye/face protection necessary. Eye/face protection necessary at: Splashes, Contact with eyes, Spray application.

- **Suitable eye protection**
  - Eye glasses with side protection goggles

- **Required properties**
  - DIN EN 166

**Skin protection**

Usually no personal skin protection necessary. Skin protection necessary at: Splashes, Contact with skin, Spray application.

- **Hand protection**
  - **Suitable gloves type:** Gloves with long cuffs
  - **Suitable material:** NBR (Nitrile rubber), 0,4mm, >8h; Butyl caoutchouc, 0,5mm, >8h; FKM (fluoro rubber), 0,7mm, >8h;
  - **Recommended glove articles:** Manufacturer KCL GmbH/Eichenzell-Germany; Ansell/Yarra City-Australia Or comparable articles from other companies.

- **Additional hand protection measures:** Check leak tightness/impermeability prior to use.

- **Remark:** Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Barrier creams are not substitutes for body protection.

- **Body protection**
  - Protective clothing.
  - **Suitable protective clothing:** Chemical protection clothing Chemical resistant safety shoes

- **Required properties:** acid-resistant, alkali-resistant.

- **Protective clothing:** DIN EN 13034 DIN EN 14605

- **Chemical resistant safety shoes:** DIN EN ISO 20345

- **Remark:** Barrier creams are not substitutes for body protection.

#### Respiratory protection

Usually no personal respirative protection necessary. Respiratory protection necessary at: insufficient ventilation aerosol or mist formation, high concentrations spray application

- **Suitable respiratory protection apparatus**
  - Combination filtering device (EN 14387) Half-face mask (DIN EN 140) ABEK-P1

- **Remark**
  - Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

#### General information

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work. Apply skin care products after work. Do not breathe gas/fumes/vapour/spray.

**SECTION 9: Physical and chemical properties**
9.1 Information on basic physical and chemical properties

**Appearance**: Liquid

**Colour**: light yellow

**Odour**: unspecific

**Safety characteristics**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/freezing point:</td>
<td>(1013 hPa)</td>
</tr>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>(1013 hPa)</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>(1013 hPa)</td>
</tr>
<tr>
<td>Flash point:</td>
<td>approx. 47 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature:</td>
<td>not determined</td>
</tr>
<tr>
<td>Sustaining combustion:</td>
<td>No</td>
</tr>
<tr>
<td>Lower explosion limit:</td>
<td>not determined</td>
</tr>
<tr>
<td>Upper explosion limit:</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>(&lt; 3000 hPa)</td>
</tr>
<tr>
<td>Density:</td>
<td>0.99 g/cm³</td>
</tr>
<tr>
<td>Solvent separation test:</td>
<td>(&lt; 3 %)</td>
</tr>
<tr>
<td>Water solubility</td>
<td>miscible</td>
</tr>
<tr>
<td>pH:</td>
<td>approx. 5</td>
</tr>
<tr>
<td>log P O/W:</td>
<td>not determined</td>
</tr>
<tr>
<td>Flow time:</td>
<td>approx. 12 s</td>
</tr>
<tr>
<td>Odour threshold:</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapourisation rate:</td>
<td>not determined</td>
</tr>
<tr>
<td>VOC content-EC</td>
<td>approx. 4.9 Wt %</td>
</tr>
<tr>
<td>VOC-France</td>
<td>A+</td>
</tr>
</tbody>
</table>

(* VOC-EC = „Volatile organic compound (VOC)“ means any organic compound having an initial boiling point less than or equal to 250 °C measured at a standard pressure of 101.3 kPa; VOC-value in g/L)

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Stable under recommended storage and handling conditions.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

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

Acute oral toxicity
Parameter: LD50 (PROPAN-2-OL; CAS No.: 67-63-0)
Exposure route: Oral
Species: Rat
Effective dose: 5840 mg/kg
Method: OECD 401

Acute dermal toxicity
Parameter: LD50 (PROPAN-2-OL; CAS No.: 67-63-0)
Exposure route: Dermal
Species: Rabbit
Effective dose: 13900 mg/kg
Method: OECD 402

Acute inhalation toxicity
Parameter: LC50 (PROPAN-2-OL; CAS No.: 67-63-0)
Exposure route: Inhalation
Species: Rat
Effective dose: > 25 mg/l
Exposure time: 6 h
Method: OECD 403

Specific effects (Longterm animal experiment)
There are no data available on the preparation/mixture itself.

Corrosion
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.

Repeated dose toxicity (subacute, subchronic, chronic)
There are no data available on the preparation/mixture itself.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
Carcinogenicity
Based on available data, the classification criteria are not met.

Germ cell mutagenicity
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
Based on available data, the classification criteria are not met.

Acute (short-term) toxicity to aquatic algae and cyanobacteria
Parameter: EC50 (PROPAN-2-OL; CAS No.: 67-63-0)
Species: Daphnia
Effective dose: 9714 mg/l
Exposure time: 24 h
Sewage treatment plant
Observe local regulations concerning effluent treatment.

12.2 Persistence and degradability
There are no data available on the preparation/mixture itself.

Biodegradation
There are no data available on the preparation/mixture itself.

12.3 Bioaccumulative potential
There are no data available on the preparation/mixture itself.

12.4 Mobility in soil
There are no data available on the preparation/mixture itself.

12.5 Results of PBT and vPvB assessment
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects
There are no data available on the preparation/mixture itself.

12.7 Additional ecotoxicological information
Additional information
The product has not been tested.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Dispose of waste according to applicable legislation.
Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Before intended use
Waste codes/waste designations according to EWC/AVV
Waste code (EWC/AVV) : 07 01 99 (Wastes not otherwise specified)

After intended use
Do not allow to enter into surface water or drains. Non-contaminated packages may be recycled. Packing which cannot be properly cleaned must be disposed of. Delivery to an approved waste disposal company.

Disposal operations
Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

13.2 Additional information
These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

SECTION 14: Transport information

14.1 UN number
No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name
No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)
No dangerous good in sense of these transport regulations.

14.4 Packing group
No dangerous good in sense of these transport regulations.

14.5 Environmental hazards
No dangerous good in sense of these transport regulations.

14.6 Special precautions for user
None
14.7 **Transport in bulk according to Annex II of Marpol and the IBC Code**
Not required.

**SECTION 15: Regulatory information**

15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU legislation**

**Authorisations and/or restrictions on use**
- Use restriction according to REACH annex XVII, no. : 40

**Restrictions of occupation**
- Observe restrictions to employment for juvenis according to the ‘juvenile work protection guideline’ (94/33/EC).
- Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

**Other regulations (EU)**
- Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer
- Not listed.
  - Contains the following substances that deplete the ozone layer: -
- Regulation (EC) No 850/2004 [POP-Regulation]
- Not listed.
  - Name of the persistent organic pollutant (POP): -

**National regulations**
- Observe in addition any national regulations!
- Germany:
  - TRGS 400 (Risk assessment for activities involving hazardous substances)
  - TRGS 500 (Protective measures)
  - TRGS 510 (Storage of hazardous substances in non-stationary containers)
  - TRGS 555 (Working instruction and information for workers)
- **Water hazard class (WGK)**
  - Classification according to AwSV - Class : 1 (Slightly hazardous to water)

**Other regulations, restrictions and prohibition regulations**
- **Switzerland**
  - VOCV-Regulation
    - Maximum VOC content (Switzerland) : 4,9 Wt % according to VOCD
- **Austria**
  - Regulation on Flammable Liquids - VbF
    - VbF-Class : NU

15.2 **Chemical safety assessment**
For this substance/mixture a chemical safety assessment has not been carried out.

15.3 **Additional information**
16.1 Indication of changes
02. Classification of the substance or mixture · Additional information · 03. This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH · 03. This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH · 07. Hints on joint storage · 11. Acute toxicity · 11. Corrosion · 11. Respiratory or skin sensitisation · 11. Carcinogenicity · 11. Germ cell mutagenicity · 11. Reproductive toxicity · 11. STOT-single exposure · 11. STOT-repeated exposure · 11. Aspiration hazard · 12. Aquatic toxicity

16.2 Abbreviations and acronyms
ABC-Pulver Extinguishing powder for fire class A, B and C
ABEK-P1 combination filter
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
AVV Abfallverzeichnis-Verordnung (Waste Regulation)
AWSV Ordinance on facilities for the handling of substances hazardous to water
BGR BG rules and regulations
c.a. circa
CAS Chemical Abstracts Service
CLP classification, labelling and packaging
CMR Carcinogen, mutagen or toxic for reproduction
DIN German Institute for Standardization
DNEL Derived No-Effect Level
EAK/EWC/EAC/CWR/CER European Waste Catalogue
EC50 / CE50 Effective Concentration 50%
EG / EC / CE European Community
EN European Standard
EUH supplemental hazard statement of the European Union
GefStoffV Gefahrstoffverordnung (Hazardous Substances Ordinance)
GHS / SGH Globally Harmonised System
H-Sätze hazard statements
IATA-DGR International Air Transport Association-Dangerous Goods Regulations
IBC-Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI International Civil Aviation Organization-Technical Instructions
IMDG-Code International Maritime Dangerous Goods Code
ISO International Organization for Standardization
LC50 / CL50 Lethal Concentration 50%
LD50 / DL50 Lethal Dose 50%
log P O/W Partition coefficient n-octanol/water
MARPOL International Convention for the Prevention of Pollution from Ships (marine pollution)
NOAEL (DSET) No observed adverse effect level
NOEC (CSEO) No observed effect concentration
Nr. Number
OECD Organisation for Economic Co-operation and Development
PBT persistent, bioaccumulative and toxic
pH Potentia hydrogenii
PIC prior informed consent
PNEC Predicted No-Effect Concentration
POP Persistent organic pollutants
P-Sätze precautionary statements
16.3 **Key literature references and sources for data**
REACH Article 59: Candidate List of substances of very high concern for Authorisation (https://echa.europa.eu/candidate-list-table)

16.4 **Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**
Hazard statements for physical hazards: On basis of test data.
Hazard statements for health hazards: Calculation method.
Hazard statements for environmental hazards: Calculation method.

16.5 **Relevant H- and EUH-phrases (Number and full text)**
- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

16.6 **Training advice**
None

16.7 **Additional information**
None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.