



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

**1.1 Product identifier**

**Slate-Lite Special Cleaner  
Article number 5000017**

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

**1.2.1 Relevant uses**

Solvent

**1.2.2 Uses advised against**

None known.

**1.3 Details of the supplier of the safety data sheet**

**Company**

R&D GmbH  
Boschstraße 12  
53359 Rheinbach / DEUTSCHLAND  
Telefon +49 (0)2226 - 89 577 57  
Homepage [www.slate-lite.com](http://www.slate-lite.com)  
E-Mail [info@slate-lite.com](mailto:info@slate-lite.com)

**Address enquiries to**

**Technical information**

[info@slate-lite.com](mailto:info@slate-lite.com)

**Safety Data Sheet**

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de)

**1.4 Emergency telephone number**

GIZ Nord +49 0551 - 19240

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

Flam. Liq. 2: H225 Highly flammable liquid and vapour.  
Eye Irrit. 2: H319 Causes serious eye irritation.  
STOT SE 3: H336 May cause drowsiness or dizziness.

**2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC**

F, Highly flammable - R 11: Highly flammable.  
Xi, Irritant - R 36: Irritating to eyes.  
R 66: Repeated exposure may cause skin dryness or cracking.  
R 67: Vapours may cause drowsiness and dizziness.



## 2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

### Labelling according to Regulation (EC) 1272/2008

#### Hazard pictograms



#### Signal word

DANGER

#### Contains:

Acetone

Butanone

#### Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

#### Special labelling

EUH066 Repeated exposure may cause skin dryness or cracking.

## 2.3 Other hazards

#### Physico-chemical hazards

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

#### Environmental hazards

Does not contain any PBT or vPvB substances.

#### Other hazards

Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### Product-type:

The product is a mixture.

Range [%]	Substance
50 - <100	Acetone
	CAS: 67-64-1, EINECS/ELINCS: 200-662-2, EU-INDEX: 606-001-00-8, ECB-Nr.: 01-2119471330-49-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336
	EEC: F-Xi, R 11-36-66-67
10 - < 25	Butanone
	CAS: 78-93-3, EINECS/ELINCS: 201-159-0, EU-INDEX: 606-002-00-3, ECB-Nr.: 01-2119457290-43-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336
	EEC: F-Xi, R 11-36-67-66
2,5 - < 10	Ethyl acetate
	CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, ECB-Nr.: 01-2119475103-46-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336
	EEC: F-Xi, R 11-36-66-67

#### Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%. For full text of H-statements and R-phrases: see SECTION 16.



#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

<b>General information</b>	Change soaked clothing.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
<b>Skin contact</b>	In case of contact with skin wash off with warm water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
<b>Ingestion</b>	Consult a doctor immediately. Rinse out mouth and give plenty of water to drink. Do not induce vomiting.

##### 4.2 Most important symptoms and effects, both acute and delayed

Irritant effects  
Vertigo  
Drowsiness

##### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.  
Forward this sheet to the doctor.

#### SECTION 5: Fire-fighting measures

##### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Carbon dioxide. Water spray jet. Dry powder. Alcohol-resistant foam.
<b>Extinguishing media that must not be used</b>	Full water jet.

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

Risk of formation of toxic pyrolysis products.

##### 5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.  
Use self-contained breathing apparatus.  
Cool containers at risk with water spray jet.  
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

#### SECTION 6: Accidental release measures

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

Keep away from all sources of ignition.  
Ensure adequate ventilation.

##### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.  
Do not discharge into the drains. Risk of explosion!

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

Take up with absorbent material (e.g. general-purpose binder).  
Dispose of absorbed material in accordance within the regulations.

##### 6.4 Reference to other sections

See SECTION 8+13



## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use only in well-ventilated areas.  
Avoid spilling or spraying in enclosed areas.  
Keep away from all sources of ignition - Refrain from smoking.  
Vapours can form an explosive mixture with air.  
Take precautionary measures against static discharges.  
Do not eat, drink, smoke or take drugs at work.  
Wash hands before breaks and after work.  
Use barrier skin cream.

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

Provide solvent-resistant and impermeable floor.  
Do not store together with oxidizing agents.  
Keep container in a well-ventilated place.  
Keep in a cool place, heat causes increase in pressure and risk of bursting.  
Protect from heat/overheating.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

**SECTION 8: Exposure controls / personal protection****8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

Range [%]	Substance
50 - <100	Acetone
	CAS: 67-64-1, EINECS/ELINCS: 200-662-2, EU-INDEX: 606-001-00-8
	Long-term exposure: 500 ppm, 1210 mg/m <sup>3</sup>
	Short-term exposure (15-minute): 1500 ppm, 3620 mg/m <sup>3</sup>
2,5 - <10	Ethyl acetate
	CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, ECB-Nr.: 01-2119475103-46-XXXX
	Long-term exposure: 200 ppm
	Short-term exposure (15-minute): 400 ppm
10 - <25	Butanone
	CAS: 78-93-3, EINECS/ELINCS: 201-159-0, EU-INDEX: 606-002-00-3, ECB-Nr.: 02-2119752535-35-XXXX
	Long-term exposure: 200 ppm, 600 mg/m <sup>3</sup> , Sk, BmgV
	Short-term exposure (15-minute): 300 ppm, 899 mg/m <sup>3</sup>

**Ingredients with occupational exposure limits to be monitored (EU)**

Range [%]	Substance / EC LIMIT VALUES
50 - <100	Acetone
	CAS: 67-64-1, EINECS/ELINCS: 200-662-2, EU-INDEX: 606-001-00-8
	Eight hours: 500 ppm, 1210 mg/m <sup>3</sup>
10 - <25	Butanone
	CAS: 78-93-3, EINECS/ELINCS: 201-159-0, EU-INDEX: 606-002-00-3, ECB-Nr.: 02-2119752535-35-XXXX
	Eight hours: 600 mg/m <sup>3</sup>
	Short-term (15-minute): 300 ppm, 900 mg/m <sup>3</sup>

**DNEL**

Range [%]	Substance
2,5 - < 10	Ethyl acetate, CAS: 141-78-6
	Industrial, inhalative, Acute - local effects: 1468 mg/m <sup>3</sup> .
	Industrial, dermal, Long-term - systemic effects: 63 mg/kg bw/d.
	Industrial, inhalative, Long-term - systemic effects: 734 mg/m <sup>3</sup> .
	Industrial, inhalative, Long-term - local effects: 734 mg/m <sup>3</sup> .
	Industrial, inhalative, Acute - systemic effects: 1468 mg/m <sup>3</sup> .
	general population, inhalative, Acute - systemic effects: 734 mg/m <sup>3</sup> .
	general population, inhalative, Long-term - local effects: 367 mg/m <sup>3</sup> .
	general population, inhalative, Long-term - systemic effects: 367 mg/m <sup>3</sup> .
	general population, oral, Long-term - systemic effects: 4,5 mg/kg bw/d.
	general population, dermal, Long-term - systemic effects: 37 mg/kg bw/d.
	general population, inhalative, Acute - local effects: 734 mg/m <sup>3</sup> .
50 - <100	Acetone, CAS: 67-64-1
	Industrial, inhalative, Long-term - local effects: 2420 mg/m <sup>3</sup> .
	Industrial, dermal, Long-term - systemic effects: 186 mg/kg bw/d.
	Industrial, inhalative, Long-term - systemic effects: 1210 mg/m <sup>3</sup> .
	general population, inhalative, Long-term - systemic effects: 200 mg/m <sup>3</sup> .
	general population, dermal, Long-term - systemic effects: 62 mg/kg bw/d.
	general population, oral, Long-term - systemic effects: 62 mg/kg bw/d.

**PNEC**

Range [%]	Substance
2,5 - < 10	Ethyl acetate, CAS: 141-78-6



	oral (food), 200 mg/kg.
	sewage treatment plants (STP), 650 mg/l.
	soil, 0,24 mg/kg dw.
	sediment (seaater), 0,125 mg/kg.
	sediment (freshwater), 1,25 mg/kg.
	seawater, 0,026 mg/l.
	freshwater, 0,26 mg/l.
50 - <100	Acetone, CAS: 67-64-1
	sewage treatment plants (STP), 100 mg/l.
	soil, 29,05 mg/kg dwt.
	sediment (seaater), 3,04 mg/kg dwt.
	sediment (freshwater), 30,04 mg/kg dwt.
	seawater, 1,06 mg/l.
	freshwater, 10,6 mg/l.

## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation.
<b>Eye protection</b>	Safety glasses.
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: Butyl rubber, >120 min (EN 374). In splash contact Nitrile rubber, >480 min (EN 374).
<b>Skin protection</b>	Solvent-resistant protective clothing.
<b>Other</b>	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. Avoid contact with eyes and skin. Do not inhale aerosols.
<b>Respiratory protection</b>	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter A.
<b>Thermal hazards</b>	not applicable
<b>Delimitation and monitoring of the environmental exposition</b>	See SECTION 6+7.



## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form	liquid
Color	colourless
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	> 60
Flash point [°C]	< 0
Flammability [°C]	200°C
Lower explosion limit	0,6 Vol.-%
Upper explosion limit	15 Vol.-%
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	247 hPa (20°C)
Density [g/ml]	0,798 (20°C)
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	partially miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	not determined
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See SECTION 10.3.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.  
Reactions with oxidizing agents.

### 10.4 Conditions to avoid

Strong heating.

### 10.5 Incompatible materials

Use solvent-resistant equipment.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

Range [%]	Substance
10 - < 25	Butanone, CAS: 78-93-3
	LD50, dermal, Rabbit: 5000 mg/kg (Lit.).
	LD50, oral, Rat: 3300 mg/kg (Lit.).
	LC50, inhalative, Rat: 20 mg/l/4h (Lit.).
2,5 - < 10	Ethyl acetate, CAS: 141-78-6
	LD50, dermal, mouse: 20000 mg/kg.
	LD50, oral, Rat: 5620 mg/kg.
	LC50, inhalative, Rat: 50 mg/l (4 h).
50 - <100	Acetone, CAS: 67-64-1
	LD50, dermal, Rabbit: > 15800 mg/kg.
	LD50, oral, Rat: 5800 mg/kg (OECD 401).
	LC50, inhalative, Rat: 76 mg/l (4h).

**Serious eye damage/irritation** not determined

**Skin corrosion/irritation** not determined

**Respiratory or skin sensitisation** not determined

**Specific target organ toxicity — single exposure** not determined

**Specific target organ toxicity — repeated exposure** not determined

**Mutagenicity** not determined

**Reproduction toxicity** not determined

**Carcinogenicity** not determined

**General remarks**

Toxicological data of complete product are not available.  
The product was classified on the basis of the calculation procedure of the preparation directive.

**SECTION 12: Ecological information****12.1 Toxicity**

Range [%]	Substance
10 - < 25	Butanone, CAS: 78-93-3
	LC50, (48h), Leuciscus idus: > 100 mg/l (Lit.).
	EC50, (48h), Daphnia magna: > 100 mg/l (Lit.).
2,5 - < 10	Ethyl acetate, CAS: 141-78-6
	LC50, (96h), Salmo gairdneri: 230 mg/l.
	LC50, (96h), Pimephales promelas: 230 mg/l.
	EC50, (48h), Daphnia magna: 164 mg/l.
	EC50, (48h), Algae: 5600 mg/l.
50 - <100	Acetone, CAS: 67-64-1
	LC50, (48h), Daphnia pulex: 8800 mg/l.
	LC50, (96h), Oncorhynchus mykiss: 5540 mg/l.
	NOEC, (28d), Daphnia magna: 2212 mg/l.
	NOEC, (96h), Algae: 430 mg/l.

**12.2 Persistence and degradability**

**Behaviour in environment compartments** not determined

**Behaviour in sewage plant** not determined

**Biological degradability** not determined





### 12.3 Bioaccumulative potential

not determined

### 12.4 Mobility in soil

not determined

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Other adverse effects

No classification on the basis of the calculation procedure of the preparation directive.

Do not discharge product unmonitored into the environment or into the drainage.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### Product

Dispose of as hazardous waste.

#### Waste no. (recommended)

070604\*

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.

#### Waste no. (recommended)

150110\*

## SECTION 14: Transport information

### 14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

**14.2 UN proper shipping name**

**Transport by land according to ADR/RID** UN 1993 Flammable liquid, n.o.s. (Acetone, Methyl ethyl ketone) 3 II

- Classification Code

F1

- Label



- ADR LQ

1 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 2 (D/E)

**Inland navigation (ADN)**

UN 1993 Flammable liquid, n.o.s. (Acetone, Methyl ethyl ketone) 3 II

- Classification Code

F1

- Label



**Marine transport in accordance with IMDG**

UN 1993 Flammable liquid, n.o.s. (Acetone, Methyl ethyl ketone) 3 II

- EMS

F-E, S-E

- Label



- IMDG LQ

1 I

**Air transport in accordance with IATA** UN 1993 Flammable liquid, n.o.s. (Acetone, Methyl ethyl ketone) 3 II

- Label

**14.3 Transport hazard class(es)**

See SECTION 14.2 in accordance with UN shipping name

**14.4 Packing group**

See SECTION 14.2 in accordance with UN shipping name

**14.5 Environmental hazards**

See SECTION 14.2 in accordance with UN shipping name

**14.6 Special precautions for user**

Relevant information under SECTION 6 to 8.

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

No information available.

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

**EEC-REGULATIONS**

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

**TRANSPORT-REGULATIONS**

DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).

**NATIONAL REGULATIONS (GB):**

EH40/2005 Workplace exposure limits (Second edition, published December 2011).  
CHIP 3/ CHIP 4

- Observe employment restrictions for people

yes

- VOC (1999/13/CE)

100%

**15.2 Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****16.1 R-phrases (SECTION 3)**

R 11: Highly flammable.  
 R 36: Irritating to eyes.  
 R 66: Repeated exposure may cause skin dryness or cracking.  
 R 67: Vapours may cause drowsiness and dizziness.

**16.2 Hazard statements (SECTION 3)**

H336 May cause drowsiness or dizziness.  
 H319 Causes serious eye irritation.  
 H225 Highly flammable liquid and vapour.

**16.3 Abbreviations and acronyms:**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
 CAS = Chemical Abstracts Service  
 CLP = Classification, Labelling and Packaging  
 DMEL = Derived Minimum Effect Level  
 DNEL = Derived No Effect Level  
 EC50 = Median effective concentration  
 ECB = European Chemicals Bureau  
 EEC = European Economic Community  
 EINECS = European Inventory of Existing Commercial Chemical Substances  
 ELINCS = European List of Notified Chemical Substances  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
 IC50 = Inhibition concentration, 50%  
 IMDG = International Maritime Code for Dangerous Goods  
 IUCLID = International Uniform Chemical Information Database  
 LC50 = Lethal concentration, 50%  
 LD50 = Median lethal dose  
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
 PBT = Persistent, Bioaccumulative and Toxic substance  
 PNEC = Predicted No-Effect Concentration  
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
 TLV®/TWA = Threshold limit value – time-weighted average  
 TLV®STEL = Threshold limit value – short-time exposure limit  
 VOC = Volatile Organic Compounds  
 vPvB = very Persistent and very Bioaccumulative

**16.4 Other information****Customs Tariff**

not determined

**Classification procedure**

Flam. Liq. 2: H225 Highly flammable liquid and vapour. (Calculation method)  
 Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)  
 STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)

**Modified position**

none

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