



Section 1: Identification of the substance and of the company/undertaking

1.1 Product Identifier

Product name: Rock

Product code: N77XX

Synonyms: -

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

Use of substance / mixture: Stone consolidation

1.3 Details of the supplier of the safety data sheet

Company name: Stone Tech (Cleveland) Ltd.
Lee Road
Bolckow Industrial Estate
Middlesbrough
TS6 7AR
United Kingdom

Telephone: 01642 430 099

Email: info@stone-tech.co.uk

1.4 Emergency telephone number

Telephone: 01642 430 099

Section 2: Hazards identification

2.1 Classification of the substance or mixture



Classification under CLP:



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.



2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008:

The product is classified and according to the CLP regulation.

Hazard pictograms:

GHS02: Flame
GHS07: Exclamation mark
GHS08: Health hazard



Signal words:

Danger

Hazard-determining components of labelling:

Kohlenwasserstoffe, C9-C12, n-Alkane, iso-Alkane, cyclisch, Aromaten (2-25%)
tetraethyl silicate.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

PBT:

This product is not identified as a PBT/vPvB substance.



Section 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture: consisting of the following components.

Dangerous components:

TETRAETHYL SILICATE

EINECS:	201-083-8
CAS:	78-10-4
CLP classification:	Flam. Liq. 3, H226; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335
Percent:	<50%

KOHLENWASSERSTOFFE

EINECS:	-
CAS:	-
EC number:	919-446-0
CLP classification:	C9-C12, n-Alkane, iso-Alkane, cyclisch, Aromaten (2-25%) Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336
Percent:	<25%

DIOCTYL TIN DILAURATE

EINECS:	-
CAS:	3648-18-8
CLP classification:	Repr. 2, H361; STOT RE 1, H372; Aquatic Chronic 3, H412
Percent:	<5%

Additional information: For the wording of the listed hazard phrases refer to section 16.



Section 4: First aid measures

4.1 Description of first aid measures

General information:	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
After inhalation:	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
After skin contact:	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:	If symptoms persist consult doctor.

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: Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing agents:	CO ₂ , sand, extinguishing powder. Do not use water.
For safety reasons unsuitable extinguishing agents:	Water with full jet.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for fire fighters



Protective equipment: Mouth respiratory protective device.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Environmental precautions: Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

Clean-up procedures: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

6.4 Reference to other sections

Reference to other sections: VALUE

Section 7: Handling and storage

7.1 Precautions for safe handling

Handling requirements: Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.



7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

7.3 Specific end use(s)

Specific end use(s): No further relevant information available.

Section 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.



8.2 Exposure controls

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.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.

Respiratory protection:

Filter A/P2
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves:

Nitrile rubber, NBR

Recommended thickness of the material: ³ 0.35 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 cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

As protection from splashes gloves made of the following materials are suitable:

Natural rubber, NR

Eye protection:

Tightly sealed goggles.

Skin protection:

Protective work clothing.

Section 9: Physical and chemical properties



9.1 Information on basic physical and chemical properties

Form:	Fluid.
Colour:	Colourless.
Odour:	Characteristic.
Odour threshold:	Not determined.
Evaporation rate:	VALUE
Oxidising:	VALUE
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Viscosity (Dynamic):	Not determined.
Viscosity (Kinematic):	Not determined.
Initial boiling point / range:	153°C
Melting/freezing point:	Undetermined.
Flammability (solid, gas):	Not applicable.
Flash point:	40°C
Ignition temperature:	0°C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not self-igniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits (lower):	0.6 Vol %
Explosion limits (upper):	23.0 Vol %
Part. coeff. n-octanol / water:	Not determined.
Vapour pressure at 20 °C:	1.7 hPa
Density at 20 °C:	0.954 g.cm ³
Evaporation rate:	Not determined.
Relative density:	Not determined.
Vapour density:	Not determined.
pH-value:	Not determined.
Organic solvent content:	57.52%
Solvent content VOC % (EU):	57.52%



9.2 Other information

Other information: No further relevant information available.

Section 10: Stability and reactivity

10.1 Reactivity

Reactivity: No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid

Conditions to avoid: No further relevant information available.

10.5 Incompatible materials

Materials to avoid: No further relevant information available.

10.6 Hazardous decomposition products

Hazardous decomp. products: No dangerous decomposition products known.

Section 11: Toxicological information



11.1 Information on toxicological effects

Acute toxicity:

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

Hazardous ingredients:

78-10-4 TETRAETHYL SILICATE

Route	Species		
ORL	RAT	LD50	6270 mg/kg
DERMAL	RABBIT	LD50	5878 mg/kg

Relevant effects for mixture:

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Causes serious eye irritation.

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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 May cause respiratory irritation.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard May be fatal if swallowed and enters airways.

Section 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.



12.2 Persistence and degradability

Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential

Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil

Mobility: No further relevant information available.

Ecotoxicological effects:

Remark: Harmful to fish.

Additional ecological information:

General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Harmful to aquatic organisms

12.5 Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects

Other adverse effects: No further relevant information available.

Section 13: Disposal considerations

13.1 Waste treatment methods



Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Section 14: Transport information

14.1 UN number

ADR, IMDG, IATA: UN1292

14.2 UN proper shipping name

ADR: 1292 TETRAETHYL SILICATE

IMDG, IATA: TETRAETHYL SILICATE

14.3 Transport hazard class(es)

ADR:



Class: 3 (F1) Flammable liquids.

Label: 3

IMDG, IATA:



Class: 3 Flammable liquids.

Label: 3

14.4 Packing group



ADR, IMDG, IATA: III

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for user

Special precautions: Warning: Flammable liquids.

Danger code (Kemler): 30

EMS number: F-E,S-D

Stowage category: A

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

Not applicable.

Transport/Additional information

ADR

Limited quantities (LQ): 5L

Expected quantities (EQ): Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

Transport category: 3

Tunnel restriction code: D/E

IMDG

Limited quantities (LQ): 5L

Expected quantities (EQ): Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation": UN 1292 TETRAETHYL SILICATE, 3, III



Section 15: Regulatory information

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

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Named dangerous substances - ANNEX I:	None of the ingredients is listed.
Seveso category:	P5c FLAMMABLE LIQUIDS
Qualifying quantity (tonnes) for the application of lower-tier requirements:	5,000 t
Qualifying quantity (tonnes) for the application of upper-tier requirements	50,000 t
REGULATION (EC) No 1907/2006 ANNEX XVII	Conditions of restriction: 3
National regulations:	<u>Class Share in %</u> NK 57.5

15.2 Chemical safety assessment

Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.
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Section 16: Other information

Other information



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 phrases: H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

*** Data compared to the previous version altered.**