

**NANO STONE – ENHANCING**

*Under REACH Regulation (EC) No. 1907/06 of the European Parliament and of the Council of 18.12.2006;  
Annex II amended by the Commission Regulation (EU) No. 453/2010 Annex I*

**1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND IDENTIFICATION OF THE COMPANY****1.1 PRODUCT IDENTIFICATION: NANO STONE - ENHANCING**

1.2

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR PREPARATION

**Hydrophobic agent for protecting mineral substrate For professional use.**

AND USES ADVISED AGAINST: unknown

1.3

DETAILS OF THE SUPPLIER OF THE MATERIAL SAFETY DATA SHEET

Supplier, address:

SPECIFY LTD, 272 Bath Street, Glasgow, G2 4JR, Scotland, UK

Email/tel.:

info@specify-uk.com

+44 131 331 5473

1.4

EMERGENCY TELEPHONE NUMBER: In England & Wales NHS 111 – call 111; In Scotland NHS 24 – call 111;  
In Republic of Ireland call 01 809 2166**2. HAZARDS ASSESSMENT**

2.1

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Hazards to humans

Product is not classified as hazardous to human health and life.

Environmental hazards

The product is not classified as hazardous to the environment.

2.2

LABELING None.

2.3

OTHER HAZARDS unknown

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

3.1

SUBSTANCES Not applicable

3.2

MIXTURES

Name	CAS No.	No. EINECS/ELINCS.	Concentration (%)	Classification	
				according to(EC) 1272/2008	according to 67/548/EEC
Triethoxyoctylsilane	2943-75-1	220-941-2	< 3	Skin Irrit. 2; H315	Xi, R38

#### 4. THE MEANS OF FIRST AID

4.1

##### DESCRIPTION OF FIRST AID MEASURES

**Skin contact:** Remove contaminated clothing. Wash the contaminated place with plenty of water with soap. If skin irritation develops, seek medical attention.

**Eye contact:** Protect non-affected eye, remove contact lenses. Rinse contaminated eyes thoroughly with water for 10-15 min or wash them with the Ringer's solution. Avoid strong water jet as this poses risk of mechanical damage to cornea. Seek medical attention.

**After swallowing:** do not induce vomiting. Clean mouth with water and drink plenty of water afterwards. Never give anything to an unconscious person orally. Call a physician, show the packaging or label.

**Inhalation:** there is usually no risk of exposure through this route. Should any alarming conditions develop, take the affected person outside, ensure warmth and rest, consult a physician.

4.2

##### MAJOR ACUTE AND DELAYED SYMPTOMS AND EFFECTS OF EXPOSURE

**Eye contact:** redness, lacrimation, burning sensation.

**If swallowed:** abdominal pain, nausea, diarrhea.

**Skin contact:** light irritation, redness, skin dryness and cracks.

4.3

##### INDICATIONS FOR ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL CONSIDERATIONS FOR HANDLING AN AFFECTED PERSON.

Decision on suitable treatment is made by the physician after assessing the condition of the affected person.

#### 5. FIRE-FIGHTING MEASURES

5.1

##### EXTINGUISHING MEDIA

**Appropriate extinguishing media:** foam, carbon dioxide, dry extinguishing powder, mist.

**Unsuitable extinguishing media:** compact water jet-risk of fire spread.

5.2

##### SPECIAL RISKS ASSOCIATED WITH THE SUBSTANCE OR MIXTURE

In the event of fire, hazardous gases containing, for example, carbon oxides, may be produced. Avoid inhaling of combustion product as they can pose a threat to health.

5.3

##### INFORMATION FOR THE FIRE SERVICE:

General protection measures in case of fire. Do not stay in the affected area without appropriate chemical-resistant clothing and breathing apparatus with independent air circulation.

#### 6. ACCIDENTAL RELEASE MEASURES

6.1

##### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND PROCEDURES IN EMERGENCY SITUATIONS

**Personal Protective Equipment:** Use suitable protection.

6.2

##### ENVIRONMENTAL PRECAUTIONS

Prevent spreading or penetration into the sewage system, irrigation canals or rivers using sand, soil or other relevant barriers.

6.3

**METHODS AND MATERIALS TO PREVENT SPREADING OF THE CONTAMINATION AND FOR REMOVING THE CONTAMINATION**

Consider evacuation or separation of the area in compliance with the local emergency plan. Large leaks should be stopped by banks or similar measures. Collect with a mop, wipe or remove with an absorbent and place in a container with a lid. A released product makes surface extremely slippery.

6.4

**REFERENCES TO OTHER SECTIONS**

Handling product waste – see section 13. Personal protection – see section 8.

**7. HANDLING AND STORAGE OF THE SUBSTANCES AND MIXTURES**

7.1

**PRECAUTIONS FOR SAFE HANDLING**

Avoid contact with skin and eyes. General ventilation is recommended. Local ventilation is recommended. Do not inhale the spray or mist. Keep containers which are not used tightly closed. Apply as instructed.

7.2

**CONDITIONS FOR SAFE STORAGE INCLUDING ANY MUTUAL INCOMPATIBILITIES**

Store the product in a tightly closed original packaging in cool and dry storage space. Do not store together with oxidizing agents.

7.3

**SPECIAL END-USE**

Mineral surface protection.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

8.1

**CONTROL PARAMETERS**

**Technical control measures :** Airing: Details in Section 7

**Exposure control measures for hazardous ingredients**

name	CAS	Exposure limits
Triethoxyoctylsilane	2943-75-1	1000 ppm TWA as ethanol (ACGIH)

8.2

**EXPOSURE CONTROL**

**Respiratory Protection:** If the product is applied in conditions that allow for production of aerosols or mist, you should use a suitable breathing apparatus. Depending on working conditions, wear a respiratory mask with P filter(s) or use an isolating breathing apparatus/respirator. The selection of the type of filter depends on the amount and kind of the chemical substance used in the workplace. As for characteristics of the filter, contact the supplier of respiratory protection equipment.

**Eye and face protection:** You should wear safety goggles.

**Protection of hands:** You should wear gloves resistant to chemicals. Silver shield (TM). 4H(TM). Viton Taking into account the glove pierce time, contact your protective gloves supplier.

**Hygiene measures :** Follow the rules of proper industrial hygiene. Wash your hands after using the product, in particular before eating, drinking or smoking.

**Other equipment:** protective clothing

**Means of environment exposure control :** Do not allow large quantities of product to enter ground water, sewers, wastewater or soil.

**Additional information :** These precautions refer to the room temperature. Application in a higher temperature or application with an aerosol/spray may require additional precautions. Further information on the use of silicones / organic oils in functional aerosols can be found in guides on the use of such materials in aerosols prepared by the silicone industry.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

9.1

## INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** liquid**Color:** white**Odor:** weak own**odor threshold** not determined**pH** 5,5 - 6**Boiling point (1013 hPa) °C:** > 100 °C**Ignition temperature:** > 100 °C (Closed Cup)**Autoignition temperature [°C]:** no tests performed**Melting point (1013 hPa) °C:** not determined**Evaporation rate** not determined**Flammability (solid body, gas)** not classified as a flammable product**Thermal decomposition** not determined**lower explosion limit** not applicable**Upper explosion limit** not applicable**vapor pressure** not determined**density at 20 °C:** 1 – 1,1 g/cm<sup>3</sup>**vapor density** not determined**water solubility** miscible**viscosity** 50 mPa s (at 25 °C)**Partition coefficient n-octanol/water** not determined**oxidizing properties** none**explosive properties** not determined

9.2

OTHER INFORMATION no additional data

**10. STABILITY AND REACTIVITY**

10.1

REACTIVITY: Strong oxidizing substances

10.2

CHEMICAL STABILITY: Stable in normal conditions of application.

10.3

POSSIBILITY OF HAZARDOUS REACTIONS : May react with strong oxidizing agents.

10.4

CONDITIONS TO AVOID: unknown

10.5

INCOMPATIBLE MATERIALS: unknown

10.6

HAZARDOUS DECOMPOSITION PRODUCTS: See paragraph 11. If the product is heated to &gt; 150 °C, trace amounts of formaldehyde may be liberated and adequate ventilation is required.

**11. TOXICOLOGY INFORMATION**

11.1

## INFORMATION ON TOXICOLOGICAL EFFECTS

**Effect on the respiratory system :** unknown**Effect on the digestive system:** Small amounts carried on fingers to mouth during use should not cause any harm. Swallowing of large amounts may cause digestive complaints.**Effect on skin and eyes:** May irritate in case of long-lasting or repeated contact.**Carcinogenicity:** not classified as carcinogenic**Reproductive toxicity:** no toxicity to reproduction**Mutagenicity:** not classified as mutagenic**Acute toxicity:** not classified as toxic**12. ECOLOGICAL INFORMATION**

12.1  
TOXICITY not classified as toxic

12.2  
PERSISTENCE AND DEGRADABILITY no data

12.3  
ABILITY TO BIOACCUMULATE no data

12.4  
MOBILITY IN SOIL no data

12.5  
RESULTS OF PBT I vPvB PROPERTIES ASSESSMENT no data

12.6  
OTHER HARMFUL EFFECTS no data

### 13. DISPOSAL CONSIDERATIONS

13.1  
METHODS OF WASTE DISPOSAL

**Product disposal** : In accordance with local regulations. According to the European Waste Catalogue, waste codes arise from the use and not properties of a product. Waste codes should be determined by the user, in particular in consultation with local authorities responsible for waste disposal.

**Packaging disposal** : In accordance with local regulations. Waste codes should be determined by the user, in particular in consultation with local authorities responsible for waste disposal.

EC legal acts: directives of the European Parliament and the Council: 2006/12/EC and 94/62/EC, Council Directive 91/689/EEC.  
National legislation: Journal of Laws of 2001 No. 62, item 628, as amended. Journal of Laws of 2001 No. 63, item 638, as amended.

### 14. TRANSPORT INFORMATION

**The product is not classified as hazardous in road, sea and air transport.**

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	-	-	-	-

	ADR/RID	ADN/ADNR	IMDG	IATA
14.2 PROPER SHIPPING NAME UN	-	-	-	-
14.3 HAZARD CLASS (-ES) IN TRANSPORT	-	-	-	-
14.4 PACKAGING GROUPS	-	-	-	-
14.5 HAZARDS FOR THE ENVIRONMENT	-	-	-	-
14.6 SPECIAL PRECAUTIONS FOR USERS FOR USERS	-	-	-	-
14.7 BULK TRANSPORT IN ACCORDANCE WITH ANNEX II OF MARPOL 73/78 CONVENTION AND THE IBC CODE No data available				

## 15. REGULATORY INFORMATION

### 15.1

#### SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

**The sheet was prepared in compliance with:**

rules set in Annex II to the Regulation (EC) No. 1907/2006 (REACH), as amended (Commission Regulation (EU) No. 453/2010) Commission Regulation (EU) No. 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress,

Regulation of the European Parliament and the Council (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures.

Regulation of the Minister of Economy, Labour and Social Policy of 31 March 2003 on basic requirements for personal protective equipment (Journal of Laws of 2003 No. 80, item 725), as amended.

- Act of 25 February 2011 on chemical substances and their mixtures (Journal of Laws of 2011 No. 63, item 322), as amended.

- Act of 27 April 2001 Environmental Protection Law (Journal of Laws No. 62, item 627, as amended).

- Act of 5 October 2010 on waste (Journal of Laws No. 185 item 1243)

- Act of 28 October 2002 on road transport of hazardous materials (Journal of Laws No. 199, item 1671, as amended).

Regulation of the Minister of Health of 10 August 2012 on the criteria and methods of classification of chemical substances and their mixtures (Journal of Laws of 2012, item 1018).

Regulation of the European Parliament and of the Council (EC) No. 1272/2008 of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 - Official Journal of the EU of 31 December 2008.

Regulation of the Minister of Labour and Social Policy of 29 November 2002 on the maximum permissible concentrations of agents hazardous to health in working environment (Journal of Laws 2002 No. 217 item 1833), as amended.

- Act of 31 March 2004 on rail transport of hazardous materials (Journal of Laws No. 97, item 962, as amended).

- Act of 11 May 2001 on packaging and waste packaging (Journal of Laws No. 63, item 638, as amended)

### 15.2

#### CHEMICAL SAFETY ASSESSMENT

The product has not undergone the chemical safety assessment.

## 16. OTHER INFORMATION

**List of risk classes and categories according to CLP 1272/2008:**

**Skin Irrit. 2** - Irritant to skin - Category 2

**List of H-phrases used in the MSDS:**

**H315** - Causes skin irritation

**List of risk classes and categories according to Directive 1999/45/EC [DPD]**

**Xi** - Irritant

**Full text of R-phrases :**

**R38** - Irritating to skin

When the product mixes with other substances, make sure there are no new risks involved.

The above information is considered correct but not exhaustive and should be used only as approximate.

Information provided in this Material Safety Data Sheet is based on current knowledge and applicable legal regulations of the EU and individual countries. This product must not be used for purposes other than specified in section 1, without obtaining written instructions how to apply it beforehand. In all cases the user is responsible for performing all the activities required by local rules and regulations. This Material Safety Data Sheet describes safety requirements that concern our product. However, it should not be treated as a guarantee of the product's properties. The Material Safety Data Sheet was modified on 09.02.2013 and the modifications supersede all previous information.