

# Material Safety Data Sheet

## S-Protect BHN

Ref. ST3100  
 Rev. no. 1  
 Prepared Date. 09.12.2018  
 Review Date. 16.12.2021

### 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

**Product name:** Protectosil® BHN (isobutyltriethoxysilane)

**Recommended use:** Industrial Use – Waterproofing Agent

**Company details:** Stoanz Ltd

**Address:** 72 Abel Smith Street, Wellington, New Zealand

**Telephone number:** +64 4 801 7794

**Emergency telephone no:** Nation Poisons Centre, 0800 POISON, 0800 764 766

### 2. HAZARDS IDENTIFICATION

**Hazard classification As per EU-GHS Ordinance (EC) No. 1272/2008:** EU-GHS as per Regulation (EU) no. 1272/2008, Annexd VI  
 Skin Irritation Category 2

#### GHS-Labelling:



**Symbol –**

**Signal word –** Warning

**Hazard Statement –** H315 – causes skin irritation.

**Precautionary Statement –** P264a – Wash skin thoroughly after handling.

**Prevention –** 280 – Wear protective gloves

**Precautionary Statement –** P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

**Reaction –** Specific treatment (See supplemented first aid instructions on this label)

P362 – take off contaminated clothing and wash before re-use.

**Classification as per Directive 67/548/EC or Directive 1999/45/EC:** Xi, Irritant  
 R38: Irritating to skin

**Other Hazards:** Not a PBT, vPvB substance as per the criteria of the REACH Ordinance

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Information on hazardous components as per EU-GHS Ordinance (EC) No. 1272/2008:** ISOBUTYLTRIETHOXYSILANE  
 CAS-no 17980-47-1 EC-No. 402-810-3  
 Skin Irritation Category 2

ISOBUTYLTRIETHOXYSILANE

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 Xi; R38

**Other Information:** Texts of H phrases, see in chapter 16. See chapter 16 for text of risk phrases

### 4. FIRST AID MEASURES

**Inhalation:** Follow inhalation of aerosols or mist: move victims into fresh air. If symptoms persist, consult a physician for treatment

**Skin Contact:** Wash off immediately with plenty of water and soap  
 Consult a doctor in the event of permanent skin irritation

**Eye Contact:** Immediately Rinse thoroughly with plenty of water keep eyelid open for at least 5 minutes. If nese  
 In case of persistent discomfort: Consult an ophthalmologist

**Ingestion:** Have the mouth rinsed with water.  
 Have patient drink plenty of water in small sips  
 Consult a physician immediately.

**Indication of any immediate medical attention and special treatment needed** If required, therapy of irritative effect. After absorbing large amounts of substance.  
 Administration of activated charcoal  
 Acceleration of gastrointestinal passage

### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Water spray, foam, CO2, dry powder

**Special Protective equipment for fire-fighters** In case of fire: wear a self-contained respiratory apparatus

### 6. ACCIDENTAL RELEASE MEASURES

**Procedures to be covered:**

Personal Precautions  
 Use personal protective equipment.  
 Ensure adequate ventilation

Environmental Precautions  
 Do not allow substance to enter soil, bodies of water or sewer canals, ground water or drainage systems

Methods for Cleaning Up  
 Soak up with inert absorbant material (E.G sand, silica gel, acid binder, universal binder, sawdust)  
 Fill into marked, sealable containers.  
 To be disposed of in compliance with existing regulations.

### 7. HANDLING AND STORAGE

**Handling Practices:** Precautions for safe handling  
 Use open air or with adequate ventilation  
Advice on protection against fire and explosion  
 Take precautionary measures against static charges, keep away from sources of ignition.

**Storage:** Requirements for storage

Ref. ST3100

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# Material Safety Data Sheet

## S-Protect BHN

Keep containers tightly closed in a cool, well ventilated area. Protect from moisture

Further information

Keep tightly sealed in original packaging.

Protect from frost

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

No data available.

#### Engineering measures

Provide for adequate ventilation.

#### Personal protective equipment (PPE):

##### Respiratory protection

In case of dust/vapours/aerosols being formed or if the limit values like TLV are exceeded:

Use respiratory equipment with suitable filter or wear a self-contained respiratory apparatus.

##### Hand Protection

Glove material: For example, butyl-rubber

Material thickness: 0,4 mm

Breakthrough time: >=480 min

Selection of protective gloves to meet the requirements of specific workplaces.

Suitability for specific workplaces should be clarified with protective glove manufacturers

The information is based on our own tests, references from the literature and information from the glove manufactures, or derived by analogy with similar materials.

Remember that the useful time per day of a chemical protection glove may be shorter than the permeation time determined according to EN 374 due to the many different influential factors involved.

(e.g. temperature)

#### Eye Protection

Safety glasses

#### Skin and Body Protection

No particular measures required.

#### General hygiene:

Smoking, eating and drinking should be prohibited in the application area.

Wash face and/or hands before break and end of work.

Remove contaminated or saturated clothing.

Wash contaminated clothing before re-use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical State:

Liquid

#### Colour:

Colourless

#### Odour:

Characteristic

#### Smell Threshold

Not determined

#### Melting Point/Range:

< -65 °C

#### Boiling Point & Boiling Range:

186 °C (1013 hPa)

#### Flash point:

63 °C DIN EN 22 719

Ref. ST3100

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# Material Safety Data Sheet

## S-Protect BHN

<b>Vapour Pressure</b>	68 hpa (25 ° C)
<b>Density:</b>	Ca. 0,88g/cm <sup>3</sup> (20 °C)
<b>Metal Corrosion</b>	Not to be expected in view of the structure
<b>Water Solubility:</b>	Not miscible, decomposition by hydrolysis
<b>Partition coefficient (n-octanol/water)</b>	Log pow: 2033 (measured) related to substance: triethoxyisobutylsilane
<b>Viscosity: (dynamic)</b>	Not determined

### 10. STABILITY AND REACTIVITY

**Hazardous reactions:** No dangerous reactions known.

**Incompatible materials** water

**Hazardous decomposition products** Ethanol in case of hydrolysis

### 11. TOXICOLOGICAL INFORMATION

**Data and interpretation:**

Acute Oral Toxicity  
LD 50 Rat: > 5000 mg/kg  
Method: OECD 423

Acute Inhalation Toxicity  
LC50 Rat: > 5,88 Mg/l /4 h  
Method OECD Test Guideline 404

Acute Dermal Toxicity  
LD 50 Rat: > 2000 mg/kg  
Method: OECD Test Guideline 404

Skin Irritation  
Rabbit  
Irritating  
Method: OECD Test Guideline 405

Eye Irritation  
Rabbit  
Not irritating  
Method: OECD Test Guideline 405

Sensitization  
No data available

Assessment of STOT Single  
Assessment: the substance or mixture is not classified as specific target

Exposure  
Organ toxicant, single exposure

Assesment of STOT repeat exposure  
Assessment: the substance or mixture is not classified as specific target organ toxicant, repeat exposure.

## Material Safety Data Sheet

## S-Protect BHN

Ref.	ST3100
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Risk of aspiration toxicity

No aspiration toxicity classification

Carcinogenicity

No evidence that cancer may be caused

Toxicity to reproduction

Animal model trials have produced no evidence of fertility damage.

Genotoxicity in vitro

Ames test salmonella typhimurium

No evidence of mutagenic effects

**12. ECOLOGICAL INFORMATION****Eco-toxicological effects:**

Toxicity to Fish:

LC50 Oncorhynchus mykiss: &gt; 1000 mg/l /96 h

Method: OECD 203

LC0 Brachydanio rerio: &gt; 1000 mg/l /96 h

Method: OECD 203

**Behaviour in environmental compartments**

Bioaccumulation: Not bio accumulative

Mobility: Absorbtion on the floor - low

**Elimination information (persistence and degradability)**

Biodegradability

Exposure time 28d

Result: 75% readily biodegradable

Method: (ECD 301D)

**13. DISPOSAL CONSIDERATIONS****Product:**

With respect to local regulations, e.g. dispose of to suitable waste incineration plant.

**Waste Key Number**

No waste key number as per the European waster types list, can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer.

Waste key number must be determined as per the European Wastes Types List (decision on EU Waste Types List 2000.532/EC) in cooperation with the disposal firm / producing firm / official authority.

**Uncleaned Packaging**

Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities

**14. TRANSPORT INFORMATION****Loading instructions/Remarks****ADNR**

not hazardous freight in inland waterway traffic

**ADR**

not classified as dangerous for conveyance in the meaning of the carriage

**RID**

Not Classified as dangerous for conveyance in the meaning of the carriage of dangerous

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Ref.	ST3100
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goods by Road and Rail

**IATA\_C**

Not hazardous freight in air traffic

**IATA\_P**

Not hazardous freight in air traffic

**IMDG**

Not classified as hazardous sea cargo

**IMDG**

FOR USA ONLY: in packaging exceeding 450L, this product must be classified, placarded, marked and shipped as combustible Liquid to the USA

### 15. REGULATORY INFORMATION

National Legislation

### 16. OTHER INFORMATION

**Miscellaneous information:**

The information provided in this Safety Datasheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guideline for safe handling use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Risk phrase (R Phrase) texts**

**Isobutyltriethoxysilane**

**R38 – Irritating to skin**

**Isobutyltriethoxysilane**

**H3150 – Causes skin irritation**

**References:**