

Material Safety Data Sheet

S-Protect BHN

Ref. ST3100
 Rev. no. 1
 Prepared Date. 09.12.2021
 Review Date. 16.12.2026

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-Labeling:



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: ISOBUTYLTRIEHOXYSILANE
 CAS-no 17980-47-1 EC-No. 402-810-3
 Skin Irritation Category 2

ISOBUTYLTRIEHOXYSILANE

Material Safety Data Sheet

S-Protect BHN

Ref. ST3100
 Rev. no. 1
 Prepared Date. 09.12.2021
 Review Date. 16.12.2026

CAS-no 17980-47-1 EC-No. 402-810-3
 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:	<p><u>Personal Precautions</u> Use personal protective equipment. Ensure adequate ventilation</p> <p><u>Environmental Precautions</u> Do not allow substance to enter soil, bodies of water or sewer canals, ground water or drainage systems</p> <p><u>Methods for Cleaning Up</u> 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.</p>
----------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

7. HANDLING AND STORAGE

Handling Practices:	<p><u>Precautions for safe handling</u> Use open air or with adequate ventilation</p> <p><u>Advice on protection against fire and explosion</u> Take precautionary measures against static charges, keep away from sources of ignition.</p>
Storage:	<u>Requirements for storage</u>

Material Safety Data Sheet

S-Protect BHN

Ref.	ST3100
Rev. no.	1
Prepared Date.	09.12.2021
Review Date.	16.12.2026

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

Material Safety Data Sheet

S-Protect BHN

Ref.	ST3100
Rev. no.	1
Prepared Date.	09.12.2021
Review Date.	16.12.2026

Vapour Pressure	68 hpa (25 ° C)
Density:	Ca. 0,88g/cm ³ (20 °C)
Metal Corrosion	Not to be expected in view of the structure
Water Solubility:	Not miscible, decomposition by hydrolysis
Partition coefficient (n-octanol/water)	Log pow: 2033 (measured) related to substance: triethoxyisobutylsilane
Viscosity: (dynamic)	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
Rev. no.	1
Prepared Date.	09.12.2021
Review Date.	16.12.2026

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: > 1000 mg/l /96 h Method: OECD 203 LC0 Brachydanio rerio: > 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
-------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Material Safety Data Sheet

S-Protect BHN

Ref.	ST3100
Rev. no.	1
Prepared Date.	09.12.2021
Review Date.	16.12.2026

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: