

SealGuard II (H2OStop STI-03-0.03-9)

Sealants and Grouts

(30577003/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label: H2OStop STI-03-0.03-9

Recommended use of the chemical and restriction on use: Recommended use*: polyurethane component; industrial chemicals. Suitable for use in industrial sector: Polymers industry; chemical industry. Unsuitable for use: Uses other than recommended.

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet:

Company: S1E Ltd, Copper House, Unit 2, Barnsley, S72 2BQ.

Telephone: +44 (0)1226 397 015

E-mail address: contact@s1e.co.uk

Company: BASF CORPORATION, 100 Park Avenue, Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family: resin

Synonyms: Urethane System Resin Component

2. Hazards identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

2. Hazards identification - continued.

Classification of the product

Skin Irrit. 2	Skin irritation
Eye Dam. 1	Serious eye damage
Skin Sens. 1	Skin sensitization
Carc. 2	Carcinogenicity
Repr. 2 (unborn child)	Reproductive toxicity
Repr. 1B (unborn child)	Reproductive toxicity
STOT RE 2 (oral)	Specific target organ toxicity — repeated exposure
Aquatic Acute 3	Hazardous to the aquatic environment - acute
Aquatic Chronic 3	Hazardous to the aquatic environment - chronic

Classification of the product

Pictogram:



Signal Word:
Danger

Hazard Statement:

H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H361	Suspected of damaging the unborn child.
H360	May damage the unborn child.
H373	May cause damage to organs (Pancreas) through prolonged or repeated exposure (oral).
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P201	Obtain special instructions before use.
P260	Do not breathe dust/gas/mist/vapours.
P273	Avoid release to the environment.
P202	Do not handle until all safety precautions have been read and understood.
P272	Contaminated work clothing should not be allowed out of the workplace.
P264	Wash contaminated body parts thoroughly after handling.

2. Hazards identification - continued.

Precautionary Statements (Response):

P305 + P351 + P338

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

P310

Immediately call a POISON CENTER or physician.

P308 + P313

IF exposed or concerned: Get medical attention.

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

P362 + P364

Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Storage):

P405

Store locked up.

Precautionary Statements (Disposal):

P501

Dispose of contents/container in accordance with local regulations.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition/information on ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

dipropylene glycol

CAS Number: 25265-71-8

Content (W/W): $\geq 3.0 - < 10.0\%$

Synonym: Dipropylenglycol

Tetrahydroxypropylethylenediamine

CAS Number: 102-60-3

Content (W/W): $\geq 3.0 - < 7.0\%$

Synonym: 1,1',1'',1'''-(1,2-Ethanediyldinitrilo)tetrakis-2-propanol; Quadrol

tris(2-chloro-1-methylethyl)phosphate

CAS Number: 13674-84-5

Content (W/W): $\geq 1.0 - < 3.0\%$

Synonym: 1-Chloro-2-propanol phosphate (3:1); Tris (2-chloro-1-methylethyl)phosphate

Propanoic acid, 2-methyl-, 2,2-dimethyl-1-(1-methylethyl)-1,3- propanediyl ester

CAS Number: 6846-50-0

Content (W/W): $\geq 1.0 - < 3.0\%$

Synonym: 2-Methylpropanoic acid 2,2-dimethyl-1-(1-methylethyl)-1,3-propanediyl ester; 2,2,4-Trime thyl-1,3-pentenediol diisobutyrate

3. Composition/information on ingredients - continued.

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)

CAS Number: 3033-62-3

Content (W/W): $\geq 1.0 - < 3.0\%$

Synonym: 2,2'-Oxybis[N,N-dimethylethanamine]; Bis (dimethylaminoethyl) ether

triethylenediamine

CAS Number: 280-57-9

Content (W/W): $\geq 1.0 - < 3.0\%$

Synonym: 1,4-Diazabicyclo[2.2.2]octane; Triethylenediamine

diethylmethylbenzenediamine

CAS Number: 68479-98-1

Content (W/W): $\geq 0.1 - < 3.0\%$

Synonym: Diethyltoluylendiamin

N-Methylpyrrolidone

CAS Number: 872-50-4

Content (W/W): $\geq 0.1 - < 1.0\%$

Synonym: 1-Methyl 2-pyrrolidinone; N-Methylpyrrolidone

1,3-Benzenediamine, 4-methyl-2,6-bis(methylthio)-

CAS Number: 102093-68-5

Content (W/W): $\geq 0.1 - < 1.0\%$

Synonym: No data available.

1,3-Benzenediamine, 2-methyl-4,6-bis(methylthio)-

CAS Number: 104983-85-9

Content (W/W): $\geq 0.1 - < 1.0\%$

Synonym: No data available.

4. First-Aid Measures

Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

If on skin:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist. If irritation develops, seek medical attention.

4. First-Aid Measures - continued.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Remove contact lenses, if present. Immediate medical attention required.

If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting. Immediate medical attention required.

Most important symptoms and effects, both acute and delayed

Symptoms: corneal injury, Skin contact may provoke the following symptoms:, skin irritation, allergic symptoms

Information on: tris(2-chloro-1-methylethyl)phosphate

Symptoms: Overexposure may cause:, convulsions, depression, hypoxemia, tremors

Information on: triethylenediamine

Symptoms: Overexposure may cause:, corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Information on: Tetrahydroxypropylethylenediamine

Symptoms: Overexposure may cause:, Eye irritation, skin irritation, erythema, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Information on: N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)

Symptoms: Overexposure may cause:, corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Hazards: Symptoms can appear later.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media: water spray, dry powder, carbon dioxide, foam

Unsuitable extinguishing media for safety reasons: water jet

5. Fire-Fighting Measures - continued.

Special hazards arising from the substance or mixture

Hazards during fire-fighting: No particular hazards known.

Advice for fire-fighters

Protective equipment for fire-fighting: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Further accidental release measures:

High risk of slipping due to leakage/spillage of product.

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

Environmental precautions

Do not empty into drains. Do not discharge into the subsoil/soil.

Methods and material for containment and cleaning up

Spills should be contained, solidified, and placed in suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Avoid inhalation of mists/vapours. When using do not eat, drink or smoke. Wear suitable gloves and eye/face protection. Protect against moisture.

Protection against fire and explosion:

No special precautions necessary.

Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Suitable materials for containers: Carbon steel (Iron), High density polyethylene (HDPE), Low density polyethylene (LDPE), Stainless steel 1.4301 (V2)

Further information on storage conditions: From this information no suitability of the materials mentioned above for the design of installations, including containers for permanent storage, can be inferred. Special conditions apply to the selection of materials in this regard, which we can communicate on request. Containers should be stored tightly sealed in a dry place.

7. Handling and Storage - continued.

Storage stability:

Storage temperature: 16 - 27 °C

Protect against moisture.

The stated storage temperature is noted for health and safety in the workplace. With regard to Quality, please refer to the product specific Technical Bulletin.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	ACGIH, US:	Skin Designation ; The substance can be absorbed through the skin.
	ACGIH, US:	TWA value 0.05 ppm ;
	ACGIH, US:	STEL value 0.15 ppm ;
	ACGIH, US:	Skin Designation ; Danger of cutaneous absorption
	ACGIH, US:	Skin Designation ; Danger of cutaneous absorption

Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed.

Hand protection:

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

Eye protection:

Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

Body protection:

Standard work clothes and shoes.

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Wear protective clothing as necessary to prevent contact. Avoid inhalation of vapours/mists.

Wash soiled clothing immediately. Do not eat, drink or use tobacco while working. Wash thoroughly after handling.

9. Physical and Chemical Properties

Form:	liquid, viscous
Odour:	slight odour, amine-like
Odour threshold:	No applicable information available.
Colour:	colourless to slightly yellow
pH value:	≥ 7
Freezing point:	-25.00 °C
Melting point:	No data available.
Boiling point:	> 200.00 °C
Sublimation point:	No applicable information available.
Flash point:	195.00 °C - (closed cup)
Flammability:	not flammable - (derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.
Upper explosion limit:	For liquids not relevant for classification and labelling.
Autoignition:	> 250 °C
Vapour pressure:	< 0.1 hPa (25 °C)
Density:	1.0500 g/cm ³ (25.00 °C)
Relative density:	No applicable information available.
Vapour density:	No applicable information available.
Partitioning coefficient n-octanol/ water (log Pow):	not applicable
Self-ignition temperature:	Based on its structural properties the product is not classified as self-igniting.
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.

9. Physical and Chemical Properties- continued.

Viscosity, dynamic:	900.000 mPa.s (25.00 °C)
Viscosity, kinematic:	not determined
Solubility in water:	not soluble
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Molar mass:	No data available.
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: No corrosive effect on metal.

Oxidizing properties: Not an oxidizer.

Chemical stability

The product is chemically stable.

Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid

Temperature: < 0 degrees Celsius

Incompatible materials

acids, oxidizing agents, isocyanates

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: carbon monoxide, carbon dioxide, nitrogen oxide, hydrogen cyanide

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: No known acute effects.

Oral

No applicable information available.

Inhalation

No applicable information available.

Dermal

No applicable information available.

Assessment other acute effects

Assessment of STOT single: Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Origin of data: expert judgement

Irritation / corrosion

Assessment of irritating effects: Skin contact causes irritation. May cause severe damage to the eyes.
Information on: triethylenediamine

Assessment of irritating effects: Skin contact causes irritation. May cause severe damage to the eyes.
Information on: Tetrahydroxypropylethylenediamine

Assessment of irritating effects: Not irritating to the skin. Eye contact causes irritation.
Information on: N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)

Assessment of irritating effects: Corrosive! Damages skin and eyes.
Information on: diethylmethylbenzenediamine

Assessment of irritating effects: Eye contact causes irritation. Not irritating to the skin. The European Union (EU) has classified the substance as "irritating" to eyes.

Sensitization

Assessment of sensitization: Sensitization after skin contact possible.

Aspiration Hazard

No aspiration hazard expected.

11. Toxicological information - continued.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated exposure may affect certain organs.

Information on: diethylmethylbenzenediamine

Assessment of repeated dose toxicity: EU-classification Repeated oral exposure may affect certain organs.

Genetic toxicity

Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect.
No applicable information available.

Carcinogenicity

Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests.

Information on: tris(2-chloro-1-methylethyl)phosphate

Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests.

Reproductive toxicity

Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect.
No applicable information available.

Teratogenicity

Assessment of teratogenicity: The substance caused malformations/developmental toxicity in laboratory animals. Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

Information on: N-Methylpyrrolidone

Assessment of teratogenicity: After the uptake of small doses toxicity to development will not be expected in humans. Effects observed at maternally toxic doses.

Information on: Propanoic acid, 2-methyl-, 2,2-dimethyl-1-(1-methylethyl)-1,3- propanediyl ester

Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

Other Information

The product has not been tested. The statement has been derived from the properties of the individual components.

Medical conditions aggravated by overexposure

Individuals with allergic history or pre-existing dermatitis should use extra precautions when handling this product. The substance may cause sensitization of the skin in particularly sensitive individuals.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish

Information on: diethylmethylbenzenediamine

LC50 (96 h) 194 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)

Information on: tris(2-chloro-1-methylethyl)phosphate

LC50 (96 h) 51 mg/l, *Pimephales promelas* (OECD Guideline 203, static)

The statement of the toxic effect relates to the analytically determined concentration.

Information on: N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)

LC50 (96 h) approx. 131.2 mg/l, *Brachydanio rerio* (OECD Guideline 203, semistatic)

The details of the toxic effect relate to the nominal concentration.

Aquatic invertebrates

Information on: diethylmethylbenzenediamine

EC50 (48 h) 0.5 mg/l, *Daphnia magna* (*Daphnia* test acute)

Information on: tris(2-chloro-1-methylethyl)phosphate

EC50 (48 h) 131 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

The statement of the toxic effect relates to the analytically determined concentration.

Information on: N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)

EC50 (48 h) 102 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

The statement of the toxic effect relates to the analytically determined concentration.

Aquatic plants

Information on: diethylmethylbenzenediamine

EC50 (72 h) 104 mg/l (growth rate), *Desmodemus subspicatus* (OECD Guideline 201, static)

Information on: tris(2-chloro-1-methylethyl)phosphate

EC50 (72 h) 82 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

Nominal concentration.

No observed effect concentration (72 h) 42 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

Nominal concentration.

12. Ecological Information - continued.

Information on: N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)
EC50 (72 h) 24 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)
The statement of the toxic effect relates to the analytically determined concentration.
EC10 (72 h) 5 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)
The statement of the toxic effect relates to the analytically determined concentration.
EC50 (72 h) 23 mg/l (growth rate), Selenastrum capricornutum (OECD Guideline 201, static)
The details of the toxic effect relate to the nominal concentration.
EC10 (72 h) 5.3 mg/l (growth rate), Selenastrum capricornutum (OECD Guideline 201, static)
The details of the toxic effect relate to the nominal concentration.

Chronic toxicity to aquatic invertebrates

Information on: tris(2-chloro-1-methylethyl)phosphate
No observed effect concentration (21 d) 32 mg/l, Daphnia magna (OECD Guideline 202, part 2, semistatic)
Nominal concentration.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

Information on: diethylmethylbenzenediamine
Bringmann-Kuehn Test static
bacterium/EC10 (24 h): 170 mg/l

Information on: tris(2-chloro-1-methylethyl)phosphate
DIN EN ISO 8192 aquatic
activated sludge/EC50 (3 h): 784 mg/l
Nominal concentration.

Information on: N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)
OECD Guideline 209 activated sludge, industrial/EC20 (30 min): > 720 mg/l
Nominal concentration.

Persistence and degradability

Assessment biodegradation and elimination (H2O)

Poorly biodegradable.

Elimination information

Poorly biodegradable.

12. Ecological Information - continued.

Bioaccumulative potential

Assessment bioaccumulation potential

Does not significantly accumulate in organisms.

Mobility in soil

Assessment transport between environmental compartments

Adsorption to solid soil phase is not expected.

Additional information

Adsorbable organically-bound halogen(AOX):

This product contains no organically-bound halogen.

Other ecotoxicological advice:

Do not allow to enter soil, waterways or waste water channels. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

13. Disposal considerations

Waste disposal of substance:

Incinerate or dispose of in a licensed facility. Do not discharge substance/product into sewer system.

Container disposal:

Do not reuse empty containers. Under no circumstances should empty drums be burned or cut open with gas or electric torch as toxic decomposition products may be liberated. Steel drums must be emptied and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an approved landfill. Do not attempt to refill or clean containers since residue is difficult to remove.

14. Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical: TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

State regulations

State RTK

PA

NJ

CAS Number

25265-71-8

3033-62-3

872-50-4

Chemical name

dipropylene glycol

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)

N-Methylpyrrolidone

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

WARNING: This product can expose you to chemicals including LEAD, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

NFPA Hazard codes:

Health: 3

Fire: 1

Reactivity: 1

Special:

HMIS III rating

Health: 3 α

Flammability: 1

Physical hazard: 1

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2024/06/20

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

16. Other information - continued.

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END OF DATA SHEET

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S1E Limited Specialist Suppliers of Trenchless Technology

No-dig Pipeline Repair

S1E Limited is a specialist supplier of trenchless technologies to the drainage repair industry. The company focuses on sourcing quality products for professional use. They are all tried and tested in the field to produce impressive results. S1E distributes high-quality products from market-leading manufacturers for the drainage repair industry. Products include camera inspection systems, cutting and cleaning tools, CIPP lining equipment and consumables, mechanical point repair devices, rat blockers and other site consumables.

S1E Limited is committed to being a quality supplier, with a focus on customer service. S1E is proud to be an active member of the UK Society for Trenchless Technology.

First established in 2007 as Fernco Environmental, the company's mission was to seek out repair products for the infrastructure repair and water management markets. Since 2016, it has re-focused its ranges to the specialist field of trenchless repair, with a growing portfolio in this specialist area.

The company is owned by Cooper Companies Inc, a US-based leader in the production of pipe couplings. The Group also owns companies in Canada, Mexico, Brazil, Germany and France, as well as the UK-based sister company to S1E, Fernco (previously, Flexseal).

It is accredited to ISO 9001: 2015 for its Quality Management System. It is also accredited to ISO 14001: 2015 for its Environmental Management System.



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