

ENHANCER 98 SAFETY DATA SHEET

Section 1. Product and Company Identification

Product Name:	ENHANCER 98
Product Use:	Masonry sealer and impregnation agent
Company:	Stella Sealants Corporation
Address:	2415 Whitfield Industrial Way Sarasota, FL 34243, USA
Website:	www.stellasealants.com
Email:	info@stellasealants.com
Telephone:	+1(941)357-1566
Fax:	+1(941)359-1630
24 Hour Emergency Number	(844)200-1672
Transportation emergency: (CHEMTREC, USA)	(800)424-9300

Section 2. Hazards Identification

GHS classification in accordance with 29 CFR 1910.1200

GHS label elements
Hazard pictograms



Signal Word

Warning

Hazard Statements

Causes skin irritation.
May cause an allergic skin reaction.

Precautionary Statements

Prevention:
Keep away from heat/sparks/open flames/hot surfaces.
No smoking.
Keep only in original container.
Avoid breathing spray.
Wash skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.

Response:
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

Storage:
Store in a well-ventilated place.

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Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Section 3. Hazardous Composition/Information on Ingredients

Substance / Mixture: Mixture

Chemical nature: Silicone silane/siloxane emulsion

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Triethoxy(octyl)silane	2943-75-1	>4% - < 10 %
5-Chloro-2-methyl-3(2H)-isothiazolone, mixt. with 2-methyl-3(2H)-isothiazolone	55965-84-9	< 0.1

Alternative CAS Numbers for some regions

CAS-No.	Alternative CAS Number(s)
55965-84-9	2682-20-4, 26172-55-4

Section 4. First Aid Measures

General Advice

In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.

If Inhaled

If inhaled, remove to fresh air.
Get medical attention if symptoms occur.

In Case of Skin Contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Get medical attention.
Wash clothing before reuse. Thoroughly clean shoes before reuse.
May generate flammable hydrogen gas. Avoid contact with water, alcohols, acidic, basic, or oxidizing materials.

In case of eye contact

Flush eyes with water as a precaution.
Get medical attention if irritation develops and persists.

If swallowed

If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.

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Most important symptoms and effects, both acute and delayed

Causes skin irritation.
May cause an allergic skin reaction.

Protection of first-aiders

First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

Notes to physician

Treat symptomatically and supportively.

Section 5. Firefighting Measures

Hazardous combustion products

Silicon oxides , Formaldehyde, Carbon oxides

Specific extinguishing methods

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers.

Special protective equipment

Do not allow extinguishing medium to contact container contents. Most fire extinguishing media will cause hydrogen evolution, and once the fire is put out, may accumulate in poorly ventilated or confined areas and result in flash fire or explosion if ignited. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Remove undamaged containers from fire area if it is safe to do so. Evacuate area. In the event of fire, wear self-contained breathing apparatus for fire-fighters Use personal protective equipment.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers).

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Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material.
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Materials in contact with water, moisture, acids or bases have the potential to generate hydrogen gas. Recovered material should be stored in a vented container.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

Section 7. Handling and Storage

Technical measures Local/Total ventilation

See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Advice on safe handling

Use only with adequate ventilation.

Conditions for safe storage

Do not get on skin or clothing.
Avoid inhalation of vapor or mist.
Do not swallow.
Avoid contact with eyes.
Handle in accordance with good industrial hygiene and safety practice.
Keep away from water.
Protect from moisture.
Take care to prevent spills, waste and minimize release to the environment.
Keep in properly labeled containers.
Store in original container.
Store in a closed container.
Store in accordance with the particular national regulations.

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Product may evolve minute quantities of flammable hydrogen gas which can accumulate. Adequately ventilate to maintain vapors well below flammability limits and exposure guidelines. Do not repackage. Clogged container vents may increase pressure build up.

Materials to avoid

Do not store with the following product types:
Strong oxidizing agents

Packaging material

Unsuitable material: Do not store in or use containers except the original product package.

Section 8. Exposure Control/Personal Protection

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

Ingredients	CAS-No.
Triethoxy(octyl)silane	2943-75-1
5-Chloro-2-methyl- 3(2H)isothiazolone, mixt. With 2methyl-3(2H)-isothiazolone	55965-84-9

Occupational exposure limits of decomposition products

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m ³	NIOSH REL
		STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m ³	OSHA Z-1

Engineering measures: Processing may form hazardous compounds (see section 10).

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are

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unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection Material

Chemical-resistant gloves

Remarks

Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye protection

Wear the following personal protective equipment:
Safety glasses

Skin and body protection

Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene measures

Ensure that eye flushing systems and safety showers are located close to the working place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.
These precautions are for room temperature handling.
Use at elevated temperature or aerosol/spray applications may require added precautions.

Section 9. Physical and Chemical Properties

Appearance	liquid
Color	white
Odor	Slight
Odor Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Boiling point and boiling range	100 °C
Flash point	118 °C (Method: Seta closed cup)
Evaporation rate	No data available

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Flammability (solid, gas)	Not applicable
Self-ignition	The substance or mixture is not classified as pyrophoric. The substance is not classified as self-heating.
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Relative density	+/- 0.99 gr/cm ³
Water solubility	No data available
Partition coefficient: noctanol/water	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	
Viscosity, kinematic	50 cSt
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.
Molecular weight	No data available

Section 10. Stability and Reactivity

Reactivity	Contact with water liberates highly flammable gases.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Product may evolve flammable hydrogen gas on contact with water, alcohols, acidic or basic materials, many metals or metallic compounds and can form explosive mixtures in air. When heated to temperatures above 150 °C (300 °F) in the presence of air, product can form formaldehyde vapors. Safe handling conditions may be maintained by keeping vapor concentrations within the occupational exposure limit for formaldehyde. Formaldehyde may cause cancer. It is also toxic by inhalation, skin absorption and ingestion, corrosive to skin and eyes, and may cause skin sensitization and respiratory irritation. See OSHA formaldehyde standard, 29 CFR 1910.1048 Hazardous decomposition products will be formed upon contact with water or humid air. Hazardous decomposition products will be formed at elevated temperatures.
Conditions to avoid	Exposure to moisture.
Incompatible materials	Oxidizing agents Water
Hazardous decomposition products	
Contact with water or humid air	Ethanol
Thermal decomposition	Formaldehyde

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Section 11. Toxicological Information

Information on likely routes of exposure

Inhalation

Skin contact

Ingestion

Eye contact

Acute toxicity

Not classified based on available information.

Ingredients:

Triethoxy(octyl)silane:

Acute oral toxicity

LD50 (Rat): > 5,110 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity

LD50 (Rat): 6,730 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity

Remarks: On basis of test data.

Acute oral toxicity

LD50 (Rat): 64 mg/kg

Acute inhalation toxicity

LC50 (Rat): 0.171 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity

LD50 (Rat): 87.12 mg/kg

Reproductive toxicity

5-Chloro-2-methyl-3(2H)-isothiazolone, mixt. with 2-methyl-3(2H)-isothiazolone:

Causes skin irritation.

Triethoxy(octyl)silane:

Skin corrosion/irritation

Ingredients

Species: Rabbit

Effects on fertility

Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test

Species: Rat, male and female Application Route: Ingestion Symptoms:

No effects on fertility.

Remarks: On basis of test data.

Effects on fetal development

Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test

Species: Rat, male and female

Application Route: Ingestion

Symptoms: No effects on fetal development.

Remarks: On basis of test data.

Reproductive toxicity – Assessment

No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Result: Skin irritation

Remarks: On basis of test data.

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5-Chloro-2-methyl-3(2H)-isothiazolone, mixt. with 2-methyl-3(2H)-isothiazolone:

Result: Corrosive after 3 minutes to 1 hour of exposure

Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Serious eye damage/eye irritation Not classified based on available information.

Ingredients:

Triethoxy(octyl)silane:

Species: Rabbit

Result: No eye irritation

Remarks: On basis of test data.

5-Chloro-2-methyl-3(2H)-isothiazolone, mixt. with 2-methyl-3(2H)-isothiazolone:

Result: Irreversible effects on the eye

Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Ingredients:

5-Chloro-2-methyl-3(2H)-isothiazolone, mixt. with 2-methyl-3(2H)-isothiazolone:

Test Type: Buehler Test

Routes of exposure: Skin contact

Species: Guinea pig

Result: positive

Assessment: Probability or evidence of high skin sensitization rate in humans

Germ cell mutagenicity

Not classified based on available information.

Ingredients:

Triethoxy(octyl)silane:

Genotoxicity in vitro: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)

Result: Negative

Remarks: On basis of test data.

Carcinogenicity: Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Not classified based on available information.

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Ingredients:

Triethoxy(octyl)silane:

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Ingredients:

Triethoxy(octyl)silane:

Routes of exposure: Ingestion

Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Repeated dose toxicity

Ingredients:

Triethoxy(octyl)silane:

Species: Rat

Application Route: Ingestion Remarks: On basis of test data.

Aspiration toxicity

Not classified based on available information. Further information

Ingredients:

Triethoxy(octyl)silane:

Remarks: Findings from a combined repeated-dose toxicity study with reproductive/developmental screening endpoints on n-octyltriethoxysilane have shown neurological effects in rats at high doses (1000 mg/kg). Paralysis and paresis of the limbs, and demyelination of the brain, spinal cord, sciatic and tibial nerves was noted in some animals.

Section 12. Ecological Information

Ecotoxicity

Ingredients:

Triethoxy(octyl)silane:

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.055 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203 Remarks: On basis of test data.

No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.049 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae: ErC50 (Pseudokirchneriella subcapitata (green algae)): > 0.13 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: No toxicity at the limit of solubility.

5-Chloro-2-methyl-3(2H)-isothiazolone, mixt. with 2-methyl-3(2H)-isothiazolone:

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 0.19 mg/l

Exposure time: 96 h

Toxicity to daphnia and other: EC50 (Daphnia magna (Water flea)): 0.16 mg/l

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aquatic invertebrates Exposure time: 48 h
Toxicity to algae: ErC50 (Skeletonema costatum (marine diatom)): 0.0052 mg/l
Exposure time: 48 h
NOEC (Skeletonema costatum (marine diatom)): 0.00049 mg/l
Exposure time: 48 h
M-Factor (Acute aquatic toxicity): 100
Toxicity to fish (Chronic toxicity)
NOEC (Oncorhynchus mykiss (rainbow trout)): 0.02 mg/l
Exposure time: 36 d
Toxicity to daphnia and other: NOEC (Daphnia magna (Water flea)): 0.10 mg/l
aquatic invertebrates (Chronic toxicity - Exposure time: 21 d
M-Factor (Chronic aquatic toxicity): 100
Persistence and degradability Ingredients:
Triethoxy(octyl)silane:
Biodegradability: Result: Not readily biodegradable.
Biodegradation: 31.5 %
Method: OECD Test Guideline 301D
Remarks: On basis of test data.

5-Chloro-2-methyl-3(2H)-isothiazolone, mixt. with 2-methyl-3(2H)-isothiazolone:
Biodegradability: Result: Not readily biodegradable.
Biodegradation: 62 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
Bioaccumulative potential Ingredients:
Triethoxy(octyl)silane:
Partition coefficient: n-: log Pow: 6.41
octanol/water Method: OECD Test Guideline 117
5-Chloro-2-methyl-3(2H)-isothiazolone, mixt. with 2-methyl-3(2H)-isothiazolone: Partition coefficient: n-:
log Pow: < 1 octanol/water
Mobility in soil: No data available
Other adverse effects: No data available

Section 13. Disposal Considerations

Disposal methods

Resource Conservation and Recovery Act (RCRA)

Waste Code

Waste from residues

Contaminated packaging

When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste.

Reactivity

Dispose of in accordance with local regulations.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.

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Section 14. Transport Information

International Regulations

UNRTDG: Not regulated as a dangerous good
IATA-DGR: Not regulated as a dangerous good
Remarks: VENTED PACKAGES ARE FORBIDDEN FOR AIR
TRANSPORT IMDG-Code

Not regulated as a dangerous good. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied. Domestic regulation 49 CFR 13 / 17
Not regulated as a dangerous good

Section 15. Regulatory Information

EPCRA - Emergency Planning and Community Right-to-Know
CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Acetaldehyde	75-07-0	1000	*
2-Butenal	4170-30-3	100	*
Acetic acid	64-19-7	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit. SARA 304 Extremely Hazardous Substances Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
2-Butenal	4170-30-3	100	*
Vinyl acetate	108-05-4	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards: Acute Health Hazard

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know

Water	7732-18-5
Dimethyl, Methylhydrogen Siloxane, Trimethylsiloxyterminated	68037-59-2
Triethoxy(octyl)silane	2943-75-1
Acetic acid	64-19-7
Acetaldehyde	75-07-0
California Prop. 65: WARNING! This product contains a chemical known in the State of California to cause cancer.	
Acetaldehyde	75-07-0

The ingredients of this product are reported in the following inventories:

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All ingredients listed or exempt.

All ingredients (pre-)registered or exempt.

All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption. All ingredients listed or exempt.

IECSC All ingredients listed or exempt.

KECI All ingredients listed, exempt or notified.

PICCS All ingredients listed or exempt.

DSL This product contains one or more substances which are not on the Canadian Domestic Substances List (DSL). Import of this product into Canada has volume limitations. For volume limits please consult Dow Corning Regulatory Compliance.

ENCs/ISHL All components are listed on ENCS/ISHL or exempted from inventory listing.

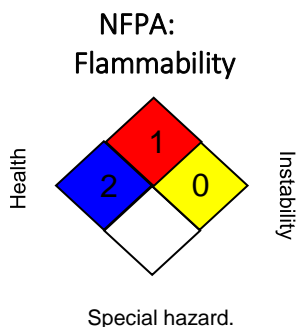
Additional regulatory information

2-Butenal 4170-30-3

This product contains CAS 4170-30-3 which is subject to a Significant New Activity as per Canada Gazette Part II, Vol. 147, No. 11. This includes any activity involving, in any one calendar year, more than 100 kg of the substance, other than an activity related to (a) its use as a drug; (b) its use as a component of a drug; or (c) its use in the manufacture of a drug as defined in the Food and Drugs Act.

Section 16. Other Information

Further information



HMIS® IV:

HEALTH	/	2
FLAMMABILITY	1	
PHYSICAL HAZARD	1	

ACGIH
NIOSH REL OSHA Z-1
ACGIH / STEL

NIOSH REL / TWA

OSHA Z-1 / TWA

USA. ACGIH Threshold Limit Values (TLV)
USA. NIOSH Recommended Exposure Limits
USA. Occupational Exposure Limits (OSHA) - Table Z-1
Limits for Air Contaminants Short-term exposure limit
Time-weighted average concentration for up to a 10-hour
workday during a 40-hour workweek
8-hour time weighted average

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HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific materials identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material.