

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 07/23/2026

Reviewed on 07/23/2026

1 Identification

- Product identifier

- Trade name: ST-3® Thread Sealant

- Synonyms: ST-3-L8 - White

- Other means of identification

- Part number: ST3L8-Applied

- Application of the substance / the mixture

Sealing

Sealant

- Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

ND Industries, a subsidiary of H.B. Fuller Company

1000 North Crooks Road

Clawson, MI 48017

USA

Telephone: +1-248-288-0000

Email: nd-info@hbfuller.com

Websites: www.ndindustries.com | www.vibra-tite.com

- Information department: Product Safety Department

- Emergency telephone number:

United States: 1-800-424-9300

International: +1-703-527-3887

2 Hazard(s) identification

- Classification of the substance or mixture



GHS08 Health hazard

Carcinogenicity 1A H350 May cause cancer.

Reproductive toxicity 2 H361 Suspected of damaging fertility or the unborn child.



GHS07

Eye irritation 2A

H319 Causes serious eye irritation.

- Label elements

- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms



GHS07 GHS08

- Signal word Danger

- Hazard-determining components of labeling:

Crystalline Silica

Defoaming agent

- Hazard statements

H319 Causes serious eye irritation.

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

- Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P280 Wear eye protection / face protection.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 07/23/2026

Reviewed on 07/23/2026

Trade name: ST-3® Thread Sealant

(Contd. of page 1)

P337+P313 If eye irritation persists: Get medical advice/attention.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Other hazards

- Results of PBT and vPvB assessment

- **PBT:** Not applicable
- **vPvB:** Not applicable

- Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

- Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

* 3 Composition/information on ingredients

- Chemical characterization: Mixtures

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:

CAS: 12001-26-2	Mica	5 – 10%
CAS: 111-76-2	2-butoxyethanol	3 – 7%
	Acute toxicity - dermal 3, H311; Acute toxicity - inhalation 3, H331; Acute toxicity - oral 4, H302; Skin irritation 2, H315; Eye irritation 2A, H319; Flammable liquids 4, H227	
	Calcium Silicate	
	Specific target organ toxicity (repeated exposure) 1, H372	
CAS: 9014-85-1	Surfactant	0.5 – 1.5%
	Eye damage 1, H318	
CAS: 7632-00-0	sodium nitrite	0.1 – 1%
	Oxidizing solids 3, H272; Acute toxicity - oral 3, H301	
	Defoaming agent	0.1 – 1%
	Reproductive toxicity 2, H361; Eye irritation 2B, H320	
CAS: 14808-60-7	Crystalline Silica	0.1 – 1%
	Carcinogenicity 1A, H350; Specific target organ toxicity (repeated exposure) 1, H372	

4 First-aid measures

- Description of first aid measures

- General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:** Generally the product does not irritate the skin.

- **After eye contact:** Rinse opened eye for several minutes under running water.

- **After swallowing:** Immediately call a doctor.

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- Extinguishing media

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

- **Special hazards arising from the substance or mixture** No further relevant information available.

- Advice for firefighters

- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective clothing.

- Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 07/23/2026

Reviewed on 07/23/2026

Trade name: ST-3® Thread Sealant

(Contd. of page 2)

Dispose of the collected material according to regulations.

- Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- Information about protection against explosions and fires: No special measures required.**- Conditions for safe storage, including any incompatibilities****- Storage:****- Requirements to be met by storerooms and receptacles:** No special requirements.**- Information about storage in one common storage facility:** Not required**- Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.**- Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

- Control parameters**- Components with limit values that require monitoring at the workplace:**

At this time, the other constituents have no known exposure limits.

CAS: 12001-26-2 Mica

PEL Long-term value: 20 mppcf ppm
<1% crystalline silica

REL Long-term value: 3* mg/m³
*respirable dust; containing < 1% quartz

TLV Long-term value: 0.1 mg/m³
*Respirable particulate matter

CAS: 111-76-2 2-butoxyethanol

PEL Long-term value: 240 mg/m³, 50 ppm
Skin

REL Long-term value: 24 mg/m³, 5 ppm
Skin

TLV Long-term value: 97 mg/m³, 20 ppm
BEI, A3

Calcium Silicate

PEL Long-term value: 15* 5** mg/m³
*total dust **respirable fraction

REL Long-term value: 10* 5** mg/m³
*total dust **respirable fraction

TLV synthetic nonfibrous: TLV withdrawn, see App. B

CAS: 14808-60-7 Crystalline Silica

PEL Long-term value: 0.05* mg/m³
*resp. dust; 30mg/m³/%SiO₂+2

REL Long-term value: 0.05* mg/m³
*respirable dust; See Pocket Guide App. A

TLV Long-term value: 0.025* mg/m³
*respirable particulate matter, A2

- Ingredients with biological limit values:**CAS: 111-76-2 2-butoxyethanol**

BEI 200 mg/g creatinine
Medium: urine
Time: end of shift
Parameter: Butoxyacetic acid (BAA) (with hydrolysis)

- Additional information: The lists that were valid during the creation were used as basis.**- Exposure controls****- Appropriate engineering controls** No further data; see section 7.**- Personal protective equipment:****- General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 07/23/2026

Reviewed on 07/23/2026

Trade name: ST-3® Thread Sealant

(Contd. of page 3)

Avoid contact with the eyes and skin.

- Breathing equipment:

Not required

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Required use of safety glasses**- Body protection:** Protective work clothing

* 9 Physical and chemical properties

- Information on basic physical and chemical properties**- General Information****- Physical state**

Liquid

- Color:

White

- Odor:

Characteristic

- Odor threshold:

Not determined

- Melting point/Melting range:

Undetermined

- Boiling point/Boiling range:

≥ 100 °C (≥ 212 °F)

- Flammability:

Not applicable

- Explosion limits:**- Lower:**

Not determined

- Upper:

Not determined

- Flash point:

150 °C (302 °F)

- Decomposition temperature:

Not determined

- pH-value:

Not determined

- Viscosity:**- Kinematic:**

Not determined

- Dynamic at 20 °C (68 °F):

7,500 mPas

- Solubility in / Miscibility with**- Water:**

Fully miscible.

- Partition coefficient (n-octanol/water):

Not determined

- Vapor pressure at 20 °C (68 °F):

≤ 23.4 hPa (≤ 17.6 mm Hg)

- Vapor pressure:**- Density at 20 °C (68 °F):**~ 1.1 g/cm³ (~ 9.1795 lbs/gal)**- Relative density**

Not determined

- Vapor density

Not determined

- Particle characteristics

Not applicable

- Other information**- Appearance:****- Form:**

Liquid

- Important information on protection of health and environment, and on safety.**- Ignition temperature:**

Product is not selfigniting.

- Danger of explosion:

Product does not present an explosion hazard.

- Solvent content:**- Organic solvents:**

6.8 %

- VOC content:

6.84 %

~ 75.2 g/l / ~ 0.63 lb/gal

- Solids content:

23.0 %

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 07/23/2026

Reviewed on 07/23/2026

Trade name: ST-3® Thread Sealant

(Contd. of page 4)

- **Change in condition**
- **Evaporation rate**

Not determined

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
 - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

*11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

ATE (Acute Toxicity Estimate)

Oral	LD50	5,765 mg/kg
Dermal	LD50	5,848 mg/kg
Inhalative	LC50/4 h	43.9 mg/l

CAS: 111-76-2 2-butoxyethanol

Oral	LD50	1,200 mg/kg (ATE)
		1,480 mg/kg (rat)
Dermal	LD50	400 mg/kg (rab)
Inhalative	LC50/4 h	3 mg/l (ATE)

CAS: 7632-00-0 sodium nitrite

Oral	LD50	85 mg/kg (rat)
------	------	----------------

- **Primary irritant effect:**

- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful

- **Interactive effects** No interactive effects between components are known.

- **Carcinogenic categories**

- IARC (International Agency for Research on Cancer)

CAS: 111-76-2	2-butoxyethanol	3
CAS: 9002-84-0	Polytetrafluoroethylene	3
CAS: 13463-67-7	titanium dioxide	2B
CAS: 14808-60-7	Crystalline Silica	1

- NTP (National Toxicology Program)

CAS: 14808-60-7	Crystalline Silica	K
-----------------	--------------------	---

- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

- **Alternative sources for toxicological information** No non-standard sources for toxicological information where used.

12 Ecological information

- **Toxicity**
 - **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable
 - **vPvB:** Not applicable
- **Other adverse effects**
 - **Remark:** Harmful to fish

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 07/23/2026

Reviewed on 07/23/2026

Trade name: ST-3® Thread Sealant

(Contd. of page 5)

- Additional ecological information:**- General notes:**

Not hazardous for water.
Harmful to aquatic organisms

13 Disposal considerations**- Waste treatment methods**

- Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:

- Recommendation: Disposal must be made according to official regulations.

- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information**- UN-Number**

- DOT, ADN, IMDG, IATA not regulated

- UN proper shipping name

- DOT, ADN, IMDG, IATA not regulated

- Transport hazard class(es)

- DOT, ADN, IMDG, IATA
- Class not regulated

- Packing group

- DOT, IMDG, IATA not regulated

- Environmental hazards:

- Marine pollutant: No

- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

- Special precautions for user

Not applicable

- UN "Model Regulation":

not regulated

15 Regulatory information**- Safety, health and environmental regulations/legislation specific for the substance or mixture****- Sara****- Section 355 (extremely hazardous substances):**

Carboxylated acrylic wax

- Section 313 (Specific toxic chemical listings):

CAS: 111-76-2 2-butoxyethanol

CAS: 7632-00-0 sodium nitrite

- TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

- Hazardous Air Pollutants

None of the ingredients is listed.

- Proposition 65**- Chemicals known to cause cancer:**

Carboxylated acrylic wax

Acrylic Emulsion

CAS: 14808-60-7 Crystalline Silica

- Chemicals known to cause reproductive toxicity for females:

Carboxylated acrylic wax

- Chemicals known to cause reproductive toxicity for males:

Carboxylated acrylic wax

- Chemicals known to cause developmental toxicity:

Carboxylated acrylic wax

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 07/23/2026

Reviewed on 07/23/2026

Trade name: ST-3® Thread Sealant

(Contd. of page 6)

- Carcinogenic categories

- EPA (Environmental Protection Agency)

CAS: 111-76-2	2-butoxyethanol	NL
---------------	-----------------	----

- TLV (Threshold Limit Value)

CAS: 111-76-2	2-butoxyethanol	A3
	Calcium Silicate	A4
CAS: 13463-67-7	titanium dioxide	A4
CAS: 1332-58-7	Kaolin	A4
CAS: 14808-60-7	Crystalline Silica	A2

- NIOSH-Ca (National Institute for Occupational Safety and Health)

CAS: 13463-67-7	titanium dioxide
CAS: 14808-60-7	Crystalline Silica

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** H.B. Fuller Company | ND Industries Health and Environmental Affairs

- **Contact:** Safety, Health and Environmental Affairs

- Classification System:

- HMIS-ratings (scale 0 - 4)

HEALTH	2	Health = *2
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

- NFPA ratings (scale 0 - 4)

2	1	0	Health = 2
			Fire = 1
			Reactivity = 0

- **Date of previous version** 02/27/2024

- **Version number of previous version:** 3

- **Date of preparation** 07/23/2026

- Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 BEI: Biological Exposure Limit
 Flammable liquids 4: Flammable liquids – Category 4
 Oxidizing solids 3: Oxidizing solids – Category 3
 Acute toxicity - oral 4: Acute toxicity – Category 4
 Acute toxicity - dermal 3: Acute toxicity – Category 3
 Skin irritation 2: Skin corrosion/irritation – Category 2
 Eye damage 1: Serious eye damage/eye irritation – Category 1
 Eye irritation 2A: Serious eye damage/eye irritation – Category 2A
 Eye irritation 2B: Serious eye damage/eye irritation – Category 2B
 Carcinogenicity 1A: Carcinogenicity – Category 1A
 Reproductive toxicity 2: Reproductive toxicity – Category 2
 Specific target organ toxicity (repeated exposure) 1: Specific target organ toxicity (repeated exposure) – Category 1

- * **Data compared to the previous version altered.**

- Disclaimer

IMPORTANT: Information, specifications, procedures and recommendations provided ("information") are based on our experience and we believe this to be accurate. No representation, guarantee or warranty is made as to the accuracy or completeness of the information, or that use of the product will avoid losses or damages or give desired results. It is user's sole responsibility to test and determine the suitability of any product for the intended use. Tests should be repeated if materials or conditions change in any way. The user is advised to review the specific context of the intended use to determine whether the user's intended use violates any law or infringes upon any patent(s). No employee, distributor or agent has any right to change these facts and offer a guarantee of performance.

H.B. Fuller, ND, ND Industries, and Vibra-TITE are registered trademarks of the H. B. Fuller Company.

(Contd. on page 8)

Safety Data Sheet
acc. to OSHA HCS

Date of issue: 07/23/2026

Reviewed on 07/23/2026

Trade name: ST-3® Thread Sealant

(Contd. of page 7)