

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 02/06/2019

Reviewed on 01/03/2018

**1 Identification****- Product identifier**

- **Trade name:** ST-3® Thread Sealant
- **Synonyms:** ST-3-L7 - Applied
- **Part number:** ST3L7 - applied
- **Application of the substance / the mixture**
  - Sealing
  - Sealant

**- Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**
  - ND Industries, Inc
  - 1000 North Crooks Road
  - Clawson, MI 48017
  - USA
  - Telephone: +1-248-288-0000
  - Email: info@ndindustries.com
  - Website: www.ndindustries.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

Carc. 1A H350 May cause cancer.  
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

**- Label elements**

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

**- Hazard pictograms**

GHS08

**- Signal word** Danger**- Hazard-determining components of labeling:**

Silicon Dioxide

**- Hazard statements**

H350 May cause cancer.  
H372 Causes damage to organs through prolonged or repeated exposure.

**- Precautionary statements**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 Wash face, hands and any exposed skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P314 Get medical advice/attention if you feel unwell.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**- Classification system:****- NFPA ratings (scale 0 - 4)**

Health = 0  
Fire = 1  
Reactivity = 0

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- **HMIS-ratings (scale 0 - 4)**

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

- **Other hazards**- **Results of PBT and vPvB assessment**

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

\* **3 Composition/information on ingredients**- **Chemical characterization: Mixtures**- **Description:** Mixture of the substances listed below with nonhazardous additions.- **Dangerous components:**

8002-74-2	Paraffin wax	Combustible Dust	20 – 29%
12001-26-2	Mica		10 – 19%
9002-84-0	Polytetrafluoroethylene	Combustible Dust	10 – 19%
1309-37-1	Pigment		5 – 9%
	Modified polysiloxane	Flam. Liq. 4, H227	1 – 4%
1332-58-7	Kaolin		1 – 4%
14808-60-7	Silicon Dioxide	Carc. 1A, H350; STOT RE 1, H372	1 – 4%

**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. Then consult a doctor.- **After swallowing:** Immediately call a doctor.- **Information for 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:**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

Use fire fighting measures that suit the environment.

- **For safety reasons unsuitable extinguishing agents:** Water- **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**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Wear protective clothing.

- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.- **Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

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.

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See Section 13 for disposal information.

## 7 Handling and storage

### - Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.

### - Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

### - 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

- **Additional information about design of technical systems:** No further data; see item 7.

### - Control parameters

#### - Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

<b>8002-74-2 Paraffin wax</b>	
REL	Long-term value: 2 mg/m <sup>3</sup>
TLV	Long-term value: 2 mg/m <sup>3</sup>
<b>12001-26-2 Mica</b>	
PEL	Long-term value: 20 mppcf ppm <1% crystalline silica
REL	Long-term value: 3* mg/m <sup>3</sup> *respirable dust; containing < 1% quartz
TLV	Long-term value: 3* mg/m <sup>3</sup> *as respirable fraction
<b>1309-37-1 Pigment</b>	
PEL	Long-term value: 10* mg/m <sup>3</sup> *Fume
REL	Long-term value: 5 mg/m <sup>3</sup> Dust & fume, as Fe
TLV	Long-term value: 5* mg/m <sup>3</sup> *as respirable fraction
<b>1332-58-7 Kaolin</b>	
PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	Long-term value: 2* mg/m <sup>3</sup> E; as respirable fraction
<b>14808-60-7 Silicon Dioxide</b>	
PEL	Long-term value: 0.05* mg/m <sup>3</sup> *resp. dust; 30mg/m <sup>3</sup> /%SiO <sub>2</sub> +2
REL	Long-term value: 0.05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m <sup>3</sup> *as respirable fraction

- **Additional information:** The lists that were valid during the creation were used as basis.

### - Exposure controls

#### - 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.

Avoid contact with the eyes and skin.

##### - Breathing equipment:

Not required.

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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:** Not required.**- Body protection:** Protective work clothing

## \* 9 Physical and chemical properties

<b>- Information on basic physical and chemical properties</b>	
<b>- General Information</b>	
<b>- Appearance:</b>	
<b>- Form:</b>	Solid material
<b>- Color:</b>	Dark orange color
<b>- Odor:</b>	Odorless
<b>- Odor threshold:</b>	Not determined.
<b>- pH-value:</b>	Not applicable.
<b>- Change in condition</b>	
<b>- Melting point/Melting range:</b>	Undetermined.
<b>- Boiling point/Boiling range:</b>	> 315 °C (> 599 °F)
<b>- Flash point:</b>	220 °C (428 °F)
<b>- Flammability (solid, gaseous):</b>	Not determined.
<b>- Ignition temperature:</b>	> 300 °C (> 572 °F)
<b>- Decomposition temperature:</b>	Not determined.
<b>- Auto igniting:</b>	Product is not selfigniting.
<b>- Danger of explosion:</b>	Product does not present an explosion hazard.
<b>- Explosion limits:</b>	
<b>- Lower:</b>	Not determined.
<b>- Upper:</b>	Not determined.
<b>- Vapor pressure at 20 °C (68 °F):</b>	≤ 30 hPa (≤ 22.5 mm Hg)
<b>- Density at 20 °C (68 °F):</b>	~ 1.8147 g/cm <sup>3</sup> (~ 15.14367 lbs/gal)
<b>- Relative density</b>	Not determined.
<b>- Vapor density</b>	Not applicable.
<b>- Evaporation rate</b>	Not applicable.
<b>- Solubility in / Miscibility with</b>	
<b>- Water:</b>	Insoluble.
<b>- Partition coefficient (n-octanol/water):</b> Not determined.	
<b>- Viscosity:</b>	
<b>- Dynamic:</b>	Not applicable.
<b>- Kinematic:</b>	Not applicable.
<b>- Solvent content:</b>	
<b>- Water:</b>	0.9 %
<b>- VOC content:</b>	0.00 % 0.0 g/l / 0.00 lb/gal
<b>- Solids content:</b>	68.0 %

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- **Other information** No further relevant information available.

## 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:**

**Acrylic copolymer**

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rabbit)

**1309-37-1 Pigment**

Oral	LD50	> 5,000 mg/kg (rat)
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- **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

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

9002-84-0	Polytetrafluoroethylene	3
1309-37-1	Pigment	3
14808-60-7	Silicon Dioxide	1

- **NTP (National Toxicology Program)**

14808-60-7	Silicon Dioxide	K
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- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
  - **Bioaccumulative potential** No further relevant information available.
  - **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
  - **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

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

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**- Uncleaned packagings:****- Recommendation:** Disposal must be made according to official regulations.**14 Transport information**

<b>- UN-Number</b> - DOT, ADN, IMDG, IATA	not regulated
<b>- UN proper shipping name</b> - DOT, ADN, IMDG, IATA	not regulated
<b>- Transport hazard class(es)</b> - DOT, ADN, IMDG, IATA - Class	not regulated
<b>- Packing group</b> - DOT, IMDG, IATA	not regulated
<b>- Environmental hazards:</b> - Marine pollutant:	No
<b>- Special precautions for user</b>	Not applicable.
<b>- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>- UN "Model Regulation":</b>	not regulated

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

None of the ingredients is listed.

**- Section 313 (Specific toxic chemical listings):**

Modified polysiloxane

**- TSCA (Toxic Substances Control Act):**

Paraffin wax

Polytetrafluoroethylene

Pigment

Sodium Aluminium silicate

Modified polysiloxane

Kaolin

Silicon Dioxide

2-propenoic acid, homopolymer, sodium salt

Deionized water

**- TSCA new (21st Century Act): (Substances not listed)**

12001-26-2 Mica

Modified polysiloxane

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

14808-60-7 Silicon Dioxide

**- Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**- Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**- Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**- Carcinogenic categories****- EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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<b>- TLV (Threshold Limit Value established by ACGIH)</b>		
1309-37-1	Pigment	A4
1332-58-7	Kaolin	A4
14808-60-7	Silicon Dioxide	A2
<b>- NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
14808-60-7	Silicon Dioxide	

**- 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:** ND Industries, Inc. - Safety, Health and Environmental Affaires

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

**- Date of preparation / last revision** 02/06/2019 / 3

**- Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 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)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 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  
 Flam. Liq. 4: Flammable liquids – Category 4  
 Carc. 1A: Carcinogenicity – Category 1A  
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

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

**- Disclaimer**

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