



Safety Data Sheet

Printing date 02/06/2019

Reviewed on 02/06/2019

# acc. to OSHA HCS **1** Identification - Product identifier - Trade name: ST-3® Thread Sealant - Synonyms: ST-3-L13 - Applied - Part number: ST3L13-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 GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2B H320 Causes eye irritation. - Label elements - GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). - Hazard pictograms GHS07 - Signal word Warning - Hazard statements H315+H320 Causes skin and eye irritation. - Precautionary statements

P264 Wash face, hands and any exposed skin thoroughly after handling. P280 Wear protective gloves. P302+P352 If on skin: Wash with plenty of water. P321 Specific treatment (see on this label). P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P337+P313 If eye irritation persists: Get medical advice/attention. - Classification system:

## - NFPA ratings (scale 0 - 4)



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



#### Trade name: ST-3® Thread Sealant

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- 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:

	Acrylic polymer	Skin Irrit. 2, H315; STOT SE 3, H335-H336; Eye Irrit. 2B, H320	20 – 29%
1332-58-7	Kaolin		10 – 19%
12001-26-2	Mica		10 – 19%
13463-67-7	titanium dioxide	Carc. 2, H351	5 – 9%
9002-84-0	Polytetrafluoroethylene	Combustible Dust	5 – 9%
112926-00-8	Precipitated silica (Silica-Amorphous)	Combustible Dust	1 – 4%
8002-74-2	Paraffin wax	Combustible Dust	1 – 4%
	Acrylic emulsion	Skin Irrit. 2, H315; STOT SE 3, H335-H336; Eye Irrit. 2B, H320	1 – 4%
7558-79-4	Di-Sodium Phosphate	Skin Irrit. 2, H315	1 – 4%
64742-55-8	Mineral oil, light paraffinic	Carc. 1B, H350	≤ 1%
14808-60-7	Silicon Dioxide	Carc. 1A, H350; STOT RE 1, H372	≤ 1%

## 4 First-aid measures

#### - Description of first aid measures

#### - After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

- Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult 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

## 5 Fire-fighting measures

#### - Extinguishing media

## - Suitable extinguishing agents:

- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- CO2, 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:

Inform respective authorities in case of seepage into water course or sewage system. 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 7 for information on sale nandling. See Section 8 for information on personal protection equipment.

No further relevant information available.

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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. Open and handle receptacle with care. Prevent formation of dust.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.

- 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:
- Keep receptacle tightly sealed.

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.

	-58-7 Kaolin
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
1200	1-26-2 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: 3* mg/m³ *as respirable fraction
1346	3-67-7 titanium dioxide
PEL	Long-term value: 15* mg/m³ *total dust
REL	See Pocket Guide App. A
TLV	Long-term value: 10 mg/m <sup>3</sup>
1129	26-00-8 Precipitated silica (Silica-Amorphous)
PEL	20mppcf or 80mg/m3 /%SiO2
REL	Long-term value: 6 mg/m³ See Pocket Guide App. C
TLV	TLV withdrawn
8002	-74-2 Paraffin wax
REL	Long-term value: 2 mg/m <sup>3</sup>
TLV	Long-term value: 2 mg/m³
1480	8-60-7 Silicon Dioxide
PEL	Long-term value: 0.05* mg/m <sup>3</sup> *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 *as respirable fraction
	- Additional information: The lists that were valid during the creation were used as basis.

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Exposure controls	
- Personal protective equipment:	
<ul> <li>General protective and hygienic Keep away from foodstuffs, beverages</li> </ul>	
Immediately remove all soiled and cor	
Wash hands before breaks and at the	5
Store protective clothing separately.	
Avoid contact with the eyes and skin.	
<ul> <li>Breathing equipment: Not required.</li> </ul>	
In case of brief exposure or low polluti	on use respiratory filter device. In case of intensive or longer exposure use respiratory
protective device that is independent of	of circulating air.
<ul> <li>Protection of hands:</li> </ul>	
(m)	
Protective gloves	
	able and resistant to the product/ the substance/ the preparation.
-	sideration of the penetration times, rates of diffusion and the degradation
<ul> <li>Material of gloves</li> <li>The selection of the suitable glove</li> </ul>	s 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 l	has therefore to be checked prior to the application.
Nitrile rubber, NBR	
- Penetration time of glove ma	
- Eye protection:	to be found out by the manufacturer of the protective gloves and has to be observed.
Tightly sealed goggles	
	slething
- Body protection: Protective work of	slothing
	slothing
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<ul> <li>Solubility in / Miscibility with</li> </ul>		
- Water:	Insoluble.	
- Partition coefficient (n-octanol/w	<i>vater):</i> Not determined.	
- Viscosity:		
- Dynamic at 20 °C (68 °F):	1,100 mPas	
- Kinematic:	Not applicable.	
- Solvent content:		
- VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
- Solids content:	53.5 %	
- 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:

- LI	D/LC50 v	values that are relevant for classification:	
Acrylic po	olymer		
Oral	LD50	> 5,000 mg/kg (rat)	
Dermal	LD50	> 5,000 mg/kg (rabbit)	
13463-67-	7 titaniun	n dioxide	
Oral	LD50	> 20,000 mg/kg (rat)	
Dermal	LD50	> 10,000 mg/kg (rabbit)	
Inhalative	LC50/4 h	> 6.82 mg/l (rat)	
7558-79-4	Di-Sodiu	m Phosphate	
Oral	LD50	17,000 mg/kg (rat)	
- <b>P</b>	rimary in	ritant effect:	
	- on the	skin: Irritant to skin and mucous membranes.	
		eye: Irritating effect.	
		ion: No sensitizing effects known.	
		xicological information:	
		ws the following dangers according to internally approved calculation methods for preparations:	
Irritant	l nogenic.		
	0		
- C	arcinoge	enic categories	
	- IARC (I	International Agency for Research on Cancer)	
13463-67	7-7 titaniu	m dioxide	2E

## 9002-84-0 Polytetrafluoroethylene 112926-00-8 Precipitated silica (Silica-Amorphous) 14808-60-7 Silicon Dioxide - NTP (National Toxicology Program) 14808-60-7 Silicon Dioxide

#### - OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 12 Ecological information

## - Toxicity

- Aquatic toxicity: No further relevant information available.

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<ul> <li>Persistence and degradability No further releval</li> <li>Behavior in environmental systems:         <ul> <li>Bioaccumulative potential No further releval</li> <li>Mobility in soil No further relevant information</li> </ul> </li> <li>Ecotoxical effects:         <ul> <li>Remark: Harmful to fish</li> </ul> </li> <li>Additional ecological information:             <ul> <li>General notes:</li> <li>Water hazard class 3 (Self-assessment): extreme Do not allow product to reach ground water, wate Danger to drinking water if even extremely small of Harmful to aquatic organisms</li> </ul> </li> <li>Results of PBT and vPvB assessment         <ul> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> </ul> </li> <li>Other adverse effects No further relevant information</li> </ul>	nt information available. available. Iy hazardous for water r course or sewage system, even in small quantities. quantities leak into the ground.
13 Disposal considerations	
- Uncleaned packagings:	gether with household garbage. Do not allow product to reach sewage system.
- Recommendation: Disposal must be made ac 14 Transport information	cording to official regulations.
- 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
- Special precautions for user	Not applicable.
<ul> <li>Transport in bulk according to Annex II of M and the IBC Code</li> </ul>	ARPOL73/78 Not applicable.
- UN "Model Regulation":	not regulated
15 Regulatory information	
- Safety, health and environmental regulation: - Sara	s/legislation specific for the substance or mixture
- Section 355 (extremely hazardous	substances):
None of the ingredients is listed.	

 None of the ingredients is listed.

 - Section 313 (Specific toxic chemical listings):

 None of the ingredients is listed.

 - TSCA (Toxic Substances Control Act):

 Kaolin

 titanium dioxide

 Polytetrafluoroethylene

 Sodium Aluminium silicate

 Paraffin wax

 Di-Sodium Phosphate

 Mineral oil, light paraffinic

 Silicon Dioxide

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Alumina Trih	vdrate	(Contd. of page
	SCA new (21st Century Act): (Substances not listed)	
•	Acrylic polymer	
12001-26-2		
112926-00-8	Precipitated silica (Silica-Amorphous)	
	Acrylic emulsion	
- Prop	position 65	
- (	Chemicals known to cause cancer:	
	Acrylic polymer	
	Acrylic polymer	
14808-60-7	Silicon Dioxide	
- (	Chemicals known to cause reproductive toxicity for females:	
None of the i	ngredients is listed.	
- (	Chemicals known to cause reproductive toxicity for males:	
None of the i	ngredients is listed.	
- (	Chemicals known to cause developmental toxicity:	
None of the i	ngredients is listed.	
- Caro	cinogenic categories	
	EPA (Environmental Protection Agency)	
None of the i	ngredients is listed.	
- 7	LV (Threshold Limit Value established by ACGIH)	
1332-58-7	Kaolin	A
13463-67-7	titanium dioxide	A
14808-60-7	Silicon Dioxide	A
- /	IIOSH-Ca (National Institute for Occupational Safety and Health)	
13463-67-7	titanium dioxide	
14808-60-7	Silicon Dioxide	

## - National regulations:

#### - Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

- 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 / 24
  - 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)
  - HIPFA, National rule 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 DE50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic VDP: very Logisticate and very Bioaccumulching

  - 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

  - REL: Recommended Exposure Limit Skin Irrit. 2: Skin corrosion/irritation Category 2 Eye Irrit. 2B: Serious eye damage/eye irritation Category 2B Carc. 1A: Carcinogenicity Category 1A Carc. 1B: Carcinogenicity Category 1B Carc. 2: Carcinogenicity Category 2 STOT SE 3: Specific target organ toxicity (single exposure) Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) Category 1
  - \* Data compared to the previous version altered.

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# Safety Data Sheet acc. to OSHA HCS

Printing date 02/06/2019

## *Trade name:* ST-3® Thread Sealant

Reviewed on 02/06/2019

## - Disclaimer

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