

Safety Data Sheet

acc. to OSHA HCS

Printing date 07/16/2015

Reviewed on 07/16/2015

*** 1 Identification**

- Product identifier

- **Trade name:** ST-3® Thread Sealant
- **Synonyms:** ST-3-L4 - Applied
- **Part number:** ST3L4-applied
- **Relevant identified uses of the substance or mixture** Thread 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.
- STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
- 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-determining components of labeling:

Acrylic polymer
 Acrylic polymer
 Acrylic emulsion

- Hazard statements

H315+H320 Causes skin and eye irritation.
 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- Precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 Wear protective gloves.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a poison center/doctor if you feel unwell.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P405 Store locked up.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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- Classification system:**- NFPA ratings (scale 0 - 4)****- HMIS-ratings (scale 0 - 4)****- 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	20-30%
	Kaolin Clay	10-20%
12001-26-2	Mica	10-20%
	Polymer	10-20%
	Titanium dioxide	5-10%
	Acrylic polymer	1-5%
	Acrylic emulsion	1-5%
112926-00-8	Precipitated silica (Silica-Amorphous)	1-5%
7558-79-4	Di-Sodium Phosphate	1-5%
64742-55-8	Mineral oil, light paraffinic	1-5%

4 First-aid measures

- Description of first aid measures

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

* 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. 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:** 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.
Dispose of the collected material according to regulations.

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- 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

- 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 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:

Kaolin Clay	
PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
12001-26-2 Mica	
PEL	Long-term value: 20 mppcf ppm <1% crystalline silica
REL	Long-term value: 3* mg/m ³ *respirable dust; containing < 1% quartz
TLV	Long-term value: 3* mg/m ³ *as respirable fraction
Titanium dioxide	
PEL	Long-term value: 15 mg/m ³
112926-00-8 Precipitated silica (Silica-Amorphous)	
PEL	20mppcf or 80mg/m ³ /%SiO ₂
REL	Long-term value: 6 mg/m ³ See Pocket Guide App. C
TLV	TLV withdrawn

- **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.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes.
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

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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.

- 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:



Tightly sealed goggles

- Body protection: Protective work clothing

9 Physical and chemical properties

- Information on basic physical and chemical properties

- General Information

- Appearance:

- **Form:** Semi-solid
- **Color:** White
- **Odor:** Characteristic
- **Odour threshold:** Not determined.

- **pH-value:** Not applicable.

- Change in condition

- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** 100 °C (212 °F)

- **Flash point:** 150 °C (302 °F)

- **Flammability (solid, gaseous):** Not determined.

- Ignition temperature:

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- Explosion limits:

- **Lower:** Not determined.
- **Upper:** Not determined.

- **Vapor pressure at 20 °C (68 °F):** 23.4 hPa (18 mm Hg)

- **Density:** Not determined.

- **Relative density:** Not determined.
- **Vapour density:** Not applicable.
- **Evaporation rate:** Not applicable.

- Solubility in / Miscibility with

- **Water:** Insoluble.

- **Partition coefficient (n-octanol/water):** Not determined.

- Viscosity:

- **Dynamic:** Not applicable.
- **Kinematic:** Not applicable.

- Solvent content:

- **Organic solvents:** 0.0 %

- **Solids content:** 43.8 %

- **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.

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- **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 polymer		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Polymer		
Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rabbit)
Titanium dioxide		
Oral	LD50	24000 mg/kg (rat)
Dermal	LD50	10000 mg/kg (rabbit)
Acrylic polymer		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
7558-79-4 Di-Sodium Phosphate		
Oral	LD50	17000 mg/kg (rat)

- Primary irritant effect:

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

- **on the eye:** Irritating effect.

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

- Additional toxicological information:

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

Irritant

Carcinogenic.

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)		
9002-84-0	Polytetrafluoroethylene	3
112926-00-8	Precipitated silica (Silica-Amorphous)	3

- NTP (National Toxicology Program)

None of the ingredients is listed.

- 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 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

- Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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

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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.

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

- Special precautions for user

Not applicable.

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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):

None of the ingredients is listed.

- Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

- TSCA (Toxic Substances Control Act):

Kaolin Clay

Polytetrafluoroethylene

Di-Sodium Phosphate

Mineral oil, light paraffinic

- Proposition 65

- Chemicals known to cause cancer:

Acrylic polymer

Acrylic polymer

- 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.

- TLV (Threshold Limit Value established by ACGIH)

Kaolin Clay

A4

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

None of the ingredients is listed.

- 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 07/16/2015 / 4

- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 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)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

- * Data compared to the previous version altered.

- Disclaimer

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