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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Thread Sealant with PTFE
Product type: Sealant
Company address:
Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

Item No. : 30561
Region: United States
Contact Information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Hazardous components</u> | <u>%</u> | <u>ACGIH TLV</u> | <u>OSHA PEL</u> | <u>OTHER</u> |
|--|----------|---|--|---|
| Isopropyl alcohol 67-63-0 | 30-60 | 200 ppm TWA 400 ppm STEL | 400 ppm TWA 980 mg/m ³ TWA | None |
| Talc 14807-96-6 | 10-30 | 2 mg/m ³ TWA respirable fraction, particulate matter containing no asbestos and < 1% crystalline silica | = 20 mppcf TWA | 50 ppm |
| Castor Oil | 10-30 | None | None | None |
| Vinyl terpolymer 27360-07-2 | 10-30 | None | None | None |
| Titanium dioxide 13463-67-7 | 1-5 | 10 mg/m ³ TWA | 15 mg/m ³ TWA total dust | None |
| Poly(tetrafluoroethylene) 9002-84-0 | 1-5 | None | None | AEL (DuPont): 10 mg/m ³ , 8 Hr TWA, total dust; 5mg/m ³ , 8 hr. TWA respirable dust |
| Silica, quartz 14808-60-7 | 0.1-1 | 0.05 mg/m ³ TWA respirable fraction | 0.1mg/m ³ TWA (respirable) | None |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Paste
Color: White
Odor: Alcoholic

HEALTH: 2*
FLAMMABILITY: 3
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

WARNING: FLAMMABLE LIQUID AND VAPOR.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Inhalation, Ingestion, Eye contact, Skin contact

Potential Health Effects

Inhalation: Vapors may cause headaches, nausea, dizziness and respiratory tract irritation.
Skin contact: Irritating to skin.
Eye contact: Vapors may irritate eyes. Contact with eyes will cause irritation.
Ingestion: Contains material that may be slightly toxic.

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Existing conditions aggravated by exposure:

Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If discomfort persists seek medical attention.

Skin contact: Wash with soap and water.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Flash point: 23.3°C (74°F) Tagliabue closed cup

Autoignition temperature: 398.3°C (750°F) estimated

Flammable/Explosive limits-lower %: 2.3 %

Flammable/Explosive limits-upper %: 12.7 %

Extinguishing media: Use dry chemical, CO₂, water spray or 'alcohol' foam.

Special fire fighting procedures: N/A

Unusual fire or explosion hazards: None

Hazardous combustion products: Toxic fluorides.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Remove sources of ignition. Ventilate area.

Clean-up methods: Remove all sources of ignition. Ventilate area. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Contain the spill in a closed container until disposal.

7. HANDLING AND STORAGE

Handling: Keep away from heat, spark and flame. Do not get in eyes.

Storage: Store away from heat, sparks, flames, or other sources of ignition.

Incompatible products: Oxidizing agents.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Use local exhaust ventilation to maintain airborne concentrations below established exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Skin protection: Chemical resistant, impermeable gloves.

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Eye/face protection: Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste
Color: White
Odor: Alcoholic
Vapor pressure: 33 mmHg @20°C (68° F)
pH: Not applicable
Boiling point/range: 82.2°C (180°F)
Melting point/range: Not determined
Specific gravity: 1.12 at 25°C (77°F)
Vapor density: 2.07
Evaporation rate: 7.7 (Ether = 1)
Solubility in water: Partial
Partition coefficient (n-octanol/water): Not determined
VOC content: 37.9%; 424 grams/liter (EPA Method 24)

10. STABILITY AND REACTIVITY

Stability: Stable.
Hazardous polymerization: Will not occur.
Hazardous decomposition products: Toxic fluorides.
Incompatibility: Oxidizing agents.
Conditions to avoid: Heat, fumes, sparks and other sources of ignition.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen |
|--|-----------------------|------------------------|------------------------|
| Isopropyl alcohol 67-63-0 | No | No | No |
| Talc 14807-96-6 | No | No | No |
| Castor Oil | No | No | No |
| Vinyl terpolymer 27360-07-2 | No | No | No |
| Titanium dioxide 13463-67-7 | No | No | No |
| Poly(tetrafluoroethylene) 9002-84-0 | No | No | No |
| Silica, quartz 14808-60-7 | Known Carcinogen | Group 1 | Yes |

Literature Referenced Target Organ & Other Health Effects

| Hazardous components | Health Effects/Target Organs |
|--|---|
| Isopropyl alcohol 67-63-0 | Allergen, Blood, Central nervous system, Irritant, Kidney, Liver, Brain, Spleen |
| Talc 14807-96-6 | Some evidence of carcinogenicity, Lung, Irritant |
| Castor Oil | Irritant |
| Vinyl terpolymer 27360-07-2 | No data |
| Titanium dioxide 13463-67-7 | Irritant, Respiratory |
| Poly(tetrafluoroethylene) 9002-84-0 | No Target Organs |
| Silica, quartz 14808-60-7 | Some evidence of carcinogenicity, Lung, Immune system |

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of in accordance with Federal, State and local regulations.

EPA hazardous waste number: D001: Ignitable.

14. TRANSPORT INFORMATION

The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name: RESIN SOLUTION
Hazard class or division: 3
Identification number: UN 1866
Packing group: III
Exceptions: Consumer Commodity ORM-D (Not more than 5L)

International Air Transportation (ICAO/IATA):

Proper shipping name: RESIN SOLUTION
Hazard class or division: 3
Identification number: UN1866
Packing group: III
Exceptions: Consumer Commodity, ID 8000, Class 9 (Not more than 500 ml)

WaterTransportation (IMO/MDG):

Proper shipping name: RESIN SOLUTION
Hazard class or division: 3
Identification number: UN 1866
Packing group: III

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification: Not available

CERCLA/SARA Section 302 EHS: None above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard, Fire
CERCLA/SARA 313: None above reporting de minimus.

California Proposition 65: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.
WHMIS hazard class: B.2, D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: Revised to new format.

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