



Revision Number: 002.2

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	LOCTITE® THREAD SEALANT WITH PTFE	IDH number:	234956
Product type:	Sealant	Item number:	30561
Company address:	Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067	Region:	United States
		Contact information:	Telephone: 860.571.5100 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state:	Paste	HEALTH:	*2
Color:	White	FLAMMABILITY:	3
Odor:	Alcoholic	PHYSICAL HAZARD:	0
		Personal Protection:	See MSDS Section 8

WARNING: FLAMMABLE LIQUID AND VAPOR.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
MAY BE HARMFUL IF SWALLOWED OR INHALED.

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects

Inhalation:	May be harmful if inhaled. Vapors may cause headaches, nausea, dizziness and respiratory tract irritation.
Skin contact:	May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Eye contact:	May cause mild irritation Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Ingestion:	May be harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
2-Propanol	67-63-0	30 - 60
Talc	14807-96-6	10 - 30
Castor oil	8001-79-4	10 - 30
Polyvinyl butyral - polyvinyl alcohol - polyvinyl acetate terpolymer	27360-07-2	10 - 30
Titanium dioxide	13463-67-7	1 - 5
Ethene, tetrafluoro-, homopolymer	9002-84-0	1 - 5
Quartz (SiO ₂)	14808-60-7	0.1 - 1

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.
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. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash point:	23 °C (73.4 °F) Tagliabue closed cup
Autoignition temperature:	398.3 °C (748.94 °F) Estimated
Flammable/Explosive limits - lower:	2.3 %
Flammable/Explosive limits - upper:	12.7 %
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards:	None
Hazardous combustion products:	Oxides of carbon. Toxic fluorides.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Ventilate area. Remove all sources of ignition.
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). Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling:	Do not get in eyes. Keep away from heat, spark and flame.
Storage:	Store away from heat, sparks, flames, or other sources of ignition.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
2-Propanol	200 ppm TWA 400 ppm STEL	400 ppm (980 mg/m ³) TWA	None	None
Talc	2 mg/m ³ TWA Respirable fraction.	20 MPPCF TWA 2.4 MPPCF TWA Respirable. 0.1 mg/m ³ TWA Respirable. 0.3 mg/m ³ TWA Total dust.	None	50 ppm
Castor oil	None	None	None	None
Polyvinyl butyral - polyvinyl alcohol - polyvinyl acetate terpolymer	None	None	None	None
Titanium dioxide	10 mg/m ³ TWA	15 mg/m ³ TWA Total dust.	None	None
Ethene, tetrafluoro-, homopolymer	None	None	None	10 mg/m ³ TWA Total dust. 5 mg/m ³ TWA Respirable fraction.
Quartz (SiO ₂)	0.025 mg/m ³ TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m ³ TWA Respirable. 0.3 mg/m ³ TWA Total dust.	None	None

Engineering controls:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection:

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

Eye/face protection:

Safety goggles or safety glasses with side shields.

Skin protection:

Chemical resistant, impermeable gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	White
Odor:	Alcoholic
Odor threshold:	Not available
pH:	Not applicable
Vapor pressure:	33 mm hg (20 °C (68°F))
Boiling point/range:	82 °C (179.6 °F)
Melting point/ range:	Not determined
Specific gravity:	1.12 at 25 °C (77°F)
Vapor density:	2.07
Flash point:	23 °C (73.4 °F) Tagliabue closed cup
Flammable/Explosive limits - lower:	2.3 %
Flammable/Explosive limits - upper:	12.7 %
Autoignition temperature:	398.3 °C (748.94 °F) Estimated
Evaporation rate:	7.7 (Ether = 1)
Solubility in water:	partially soluble
Partition coefficient (n-octanol/water):	Not determined
VOC content:	35.98 %; 343.43 g/l

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Toxic fluorides. Oxides of carbon.
Incompatible materials:	Oxidizing agents. Acids. Aldehydes. Amines.
Conditions to avoid:	Heat, flames, sparks and other sources of ignition.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
2-Propanol	No	No	No
Talc	No	No	No
Castor oil	No	No	No
Polyvinyl butyral - polyvinyl alcohol - polyvinyl acetate terpolymer	No	No	No
Titanium dioxide	No	Group 2B	No
Ethene, tetrafluoro-, homopolymer	No	No	No
Quartz (SiO ₂)	Known carcinogen.	Group 1	No

Hazardous components	Health Effects/Target Organs
2-Propanol	Allergen, Blood, Brain, Central nervous system, Irritant, Kidney, Liver, Spleen
Talc	Irritant, Lung, Some evidence of carcinogenicity
Castor oil	Irritant
Polyvinyl butyral - polyvinyl alcohol - polyvinyl acetate terpolymer	No Records
Titanium dioxide	Irritant, Respiratory, Some evidence of carcinogenicity
Ethene, tetrafluoro-, homopolymer	No Target Organs
Quartz (SiO ₂)	Immune system, Lung, Some evidence of carcinogenicity

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: D001: Ignitable.

14. TRANSPORT INFORMATION

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: (Not more than 5 L), ORM-D, Consumer Commodity

International Air Transportation (ICAO/IATA)

Proper shipping name: Resin solution
Hazard class or division: 3
Identification number: UN 1866
Packing group: III
Exceptions: Consumer Commodity, ID 8000, Class 9, (Not more than 500 ml)

Water Transportation (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:	None above reporting de minimus
CERCLA/SARA Section 302 EHS:	None above reporting de minimus
CERCLA/SARA Section 311/312:	Immediate Health, Delayed Health, Fire
CERCLA/SARA 313:	None above reporting de minimus
CERCLA Reportable quantity:	2-Propanol (CAS# 67-63-0) 100 lbs. (45.4 kg)
California Proposition 65:	This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDL Status:	All components are listed on or are exempt from listing on the Canadian 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: New Material Safety Data Sheet format.

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