



) Technologies

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

 Product name:
 Penetrating Oil

 Product type:
 Lubricant

 Company address:
 Henkel Loctite Corporation

 1001 Trout Brook Crossing
 Rocky Hill, Connecticut 06067

Item number:51221Region:United StatesContact Information:Telephone:860.571.5100Emergency telephone:860.571.5100Internet:www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components Petroleum oils	<u>%</u> 30-60	ACGIH TLV 5 mg/m ³ TWA (mist) 10mg/m ³ STEL (mist)	OSHA PEL 5 mg/m³TWA (mist)	OTHER None
n-Heptane 142-82-5	10-30	400 ppm TWA 500 ppm STEL	2000 mg/m³ TWA 500 ppm TWA	None
Propane 74-98-6	10-30	2500 ppm TWA	1000 ppm TWA 1800 mg/m³ TWA	None
2-Propoxyethanol 2807-30-9	1-5	None	None	None

3. HAZARDS IDENTIFICATION

		EMERGENCY OVERVIEW	
		HMIS:	
Physical state:	Aerosol	HEALTH:	1
Color:	Pale yellow	FLAMMABILITY:	3
Odor:	Orange	PHYSICAL HAZARD:	0
	-	Personal Protection:	See Section 8
DANGER: EXTREMELY FLAMMABLE.			
CONTENTS UNDER PRESSURE.			
	HARMFUL IF INHAL	ED.	
	HARMFUL OR FATA	L IF SWALLOWED.	
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.			

Relevant routes of exposure:

Skin, inhalation, eyes

Potential Health Effects

Inhalation:	May cause irritation to nose and throat. May cause symptoms of intoxication. Dizziness. Nausea.
	Headache. Indigestion.
Skin contact:	May cause irritation due to defatting of the skin.
Eye contact:	Direct spray or vapors will irritate and may harm eyes.
Ingestion:	May be harmful or fatal if swallowed. May cause an aspiration hazard if swallowed. Aspirated materia
-	can enter the lungs and result in pneumonitis.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If discomfort persists seek medical attention.
Skin contact:	Remove contaminated clothing and shoes. Wash with soap and water. Get medical attention if symptoms occur.
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Ingestion:	Not available

5. FIRE-FIGHTING MEASURES		
Flash point:	Not applicable to aerosols. Flame Extension: 18 inches. Extremely Flammable	
Autoignition temperature:	Not available	
Flammable/Explosive limits-lower %:	1.8	
Flammable/Explosive limits-upper %:	9.5	
Extinguishing media:	Foam. Dry chemical. Carbon dioxide (CO2).	
Special fire fighting procedures:	Use water spray to keep fire exposed containers cool.	
Unusual fire or explosion hazards:	Contents under pressure. Do not store or use near heat, spark, open flame or other sources of ignition. Do not puncture or incinerate pressurized containers. Exposure to temperatures above 49°C (120°F) may cause container to burst.	
Hazardous combustion products:	Irritating organic vapors.	
	6. ACCIDENTAL RELEASE MEASURES	
Environmental precautions:	Remove sources of ignition. Ventilate area. Prevent product from entering drains or open waters.	
Clean-up methods:	Clean-up methods - large spillage. Flush with water.	
	7. HANDLING AND STORAGE	
Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Keep away from heat, spark and flame.	
Storage:	Keep in a cool, well ventilated area. Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F). Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst.	
Incompatible products:	None.	
For information on product shelf life contact Henkel Loctite Customer Service at (800) 243-4874.		

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.
Respiratory protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s). When workplace hazards warrant the use of a respirator, appropriate respirators must be used, and a program that follows 29 CFR 1910.134 must be followed.
Skin protection:	Chemical resistant, impermeable gloves.
Eye/face protection:	Safety goggles or safety glasses with side shields.
	See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Odor: Vapor pressure: pH: Boiling point/range:	Aerosol Pale yellow Orange 106 to 110 psig Not applicable
Boiling point/range:	Greater than 204.4°C (400°F)
Melting point/range:	Not available
Specific gravity:	0.800-0.840 (concentrate)
Vapor density:	Not available
Evaporation rate:	Slower than butyl acetate
Solubility in water:	Insoluble
Partition coefficient (n-octanol/water):	Not available
VOC content:	46%

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	Oxides of carbon. Hydrocarbons
Incompatability:	Strong oxidizers.
Conditions to avoid:	Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F).

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Petroleum oils	No	No	No
n-Heptane	No	No	No
Propane	No	No	No
2-Propoxyethanol	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Petroleum oils	Irritant
n-Heptane	Central nervous system, Irritant
Propane	Cardiac, Central nervous system, Irritant
2-Propoxyethanol	Allergen, Blood, Developmental, Irritant

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:	Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.	
	14. TRANSPORT INFORMATION	
U.S. Department of Transportation Gro	und (49 CFR)-	
Proper shipping name:	Aerosols, flammable	
Hazard class or division:	2.1	
Identification number: Packing group:	UN 1950 None	
Exceptions:	(Not more than 1 Liter) Consumer Commodity ORM-D	
Marine pollutant:	None	
International Air Transportation (ICAO/		
Proper shipping name:	Aerosols, flammable	
Hazard class or division: Identification number:	2.1 UN 1950	
Packing group:	None	
Exceptions:	(Not more than 500) ID8000	
WaterTransportation (IMO/IMDG):		
Proper shipping name:	Aerosols, flammable	
Hazard class or division: Identification number:	2.1 UN 1950	
Packing group:	None	
Marine pollutant:	None	
	15. REGULATORY INFORMATION	
United States Regulatory Information		
TSCA 8 (b) Inventory Status: TSCA 12 (b) Export Notification:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory. None.	
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA 313:	None. Immediate Health Hazard, Delayed Health Hazard This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). 2- Propoxyethanol (CAS#2807-30-9).	
California Proposition 65:	This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. Benzene (CAS# 71-43-2). Ethanol, 2-ethoxy- (CAS# 110-80-5).	
Canada Regulatory Information		
CEPA DSL/NDSL Status:	Contains one or more components listed on the Non-Domestic Substances list. Those components must be tracked by all Canadian Importers of Record as required by the Canadian Environmental Protection Agency. They may be imported into Canada in limited quantities. Please contact Loctite	
WHMIS hazard class:	Health & Regulatory Affairs Department for details. A, B.1, D.2.B	

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

Prepared by:

C.J. Michaels, Senior Health & Regulatory Affairs Specialist

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