



Revision Number: 002.2

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Penetrating Oil	IDH number: 198792
Product type: Lubricant	Item number: 51221
	Region: United States
Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067	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: Aerosol	HEALTH: 1
Color: Pale yellow	FLAMMABILITY: 3
Odor: Orange	PHYSICAL HAZARD: 0
	Personal Protection: See MSDS Section 8

DANGER: EXTREMELY FLAMMABLE.
CONTENTS UNDER PRESSURE.
HARMFUL IF INHALED.
HARMFUL OR FATAL IF SWALLOWED.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

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

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 material can enter the lungs and result in pneumonitis.

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	%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	10 - 30
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	10 - 30
Stoddard solvent	8052-41-3	5 - 10
n-Heptane	142-82-5	10 - 30
Propane	74-98-6	10 - 30
2-Propoxyethanol	2807-30-9	1 - 5

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.
Skin contact:	Remove contaminated clothing and footwear. Wash with soap and water. If symptoms develop and persist, get medical attention.
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Ingestion:	Never give anything by mouth to an unconscious person. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash point:	Not applicable to aerosols.
Autoignition temperature:	Not available
Flammable/Explosive limits - lower:	1.8 %
Flammable/Explosive limits - upper:	9.5 %
Extinguishing media:	Foam, dry chemical or carbon dioxide.
Special firefighting procedures:	In case of fire, keep containers cool with water spray.
Unusual fire or explosion hazards:	Contents under pressure. Do not handle or store near an open flame, heat 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 vapours.

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:	Remove all sources of ignition. Ventilated area. Do not allow product to enter sewer or waterways.
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 vapors or mists of this product. 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.

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
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m ³ TWA mist 10 mg/m ³ STEL mist Included in the regulation but with no data values. See regulation for further details Exposure by all routes should be carefully controlled to levels as low as possible.	5 mg/m ³ TWA mist 500 ppm (2,000 mg/m ³) TWA 5 mg/m ³ TWA Mist.	None	None
Distillates (petroleum), hydrotreated light naphthenic	Exposure by all routes should be carefully controlled to levels as low as possible. Included in the regulation but with no data values. See regulation for further details 5 mg/m ³ TWA Inhalable fraction.	5 mg/m ³ TWA mist 10 mg/m ³ TWA mist 5 mg/m ³ TWA Mist. 500 ppm (2,000 mg/m ³) TWA	None	None
Stoddard solvent	100 ppm TWA	500 ppm (2,900 mg/m ³) TWA	None	None
n-Heptane	400 ppm TWA 500 ppm STEL	500 ppm (2,000 mg/m ³) TWA	None	None
Propane	1,000 ppm TWA	1,000 ppm (1,800 mg/m ³) TWA	None	None
2-Propoxyethanol	None	None	None	None

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.

Eye/face protection:

Safety goggles or safety glasses with side shields.

Skin protection:

Chemical resistant, impermeable gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Aerosol
Color:	Pale yellow
Odor:	Orange
Odor threshold:	Not available
pH:	Not available
Vapor pressure:	106 - 110 mbar
Boiling point/range:	> 204.4 °C (> 399.9 °F)
Melting point/ range:	Not available
Specific gravity:	0.800 - 0.840 (concentrate)
Vapor density:	Not available
Flash point:	Not applicable to aerosols.
Flammable/Explosive limits - lower:	1.8 %
Flammable/Explosive limits - upper:	9.5 %
Autoignition temperature:	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:	Not available
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Not available
Incompatible materials:	Strong oxidizing agents.
Conditions to avoid:	Not available

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Distillates (petroleum), hydrotreated heavy naphthenic	Known carcinogen.	Group 1	No
Distillates (petroleum), hydrotreated light naphthenic	Known carcinogen.	Group 1	No
Stoddard solvent	No	No	No
n-Heptane	No	No	No
Propane	No	No	No
2-Propoxyethanol	No	No	No

Hazardous components	Health Effects/Target Organs
Distillates (petroleum), hydrotreated heavy naphthenic	Irritant
Distillates (petroleum), hydrotreated light naphthenic	Irritant
Stoddard solvent	Irritant, Central nervous system
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: Follow all local, state, federal and provincial regulations for disposal.

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 Ground (49 CFR)

Proper shipping name: Aerosols
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

Water Transportation (IMO/MDG)

Proper shipping name:	AEROSOLS
Hazard class or division:	2.1
Identification number:	UN 1950
Packing group:	None

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:	N-Heptane (CAS# 142-82-5).
CERCLA/SARA Section 302 EHS:	None above reporting de minimus
CERCLA/SARA Section 311/312:	Immediate Health, Delayed Health
CERCLA/SARA 313:	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 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/NDSL Status:	Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.
WHMIS hazard class:	A, B.1, 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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