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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: EQUIPMENT FLUSHING SOLVENT Solvente
Para Limpieza Del Equipo
Product type: Chlorinated hydrocarbon
Company address:
Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

Item No. : 12121 / IDH No. 135238
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>
Methylene chloride 75-09-2	60-100	50 ppm TWA	12.5 ppm Action Level See 29 CFR 1910.1052 125 ppm STEL 15 min 25 ppm TWA 8 hr	None
Propylene oxide 75-56-9	0.1-1	2 ppm TWA	100 ppm TWA 240 mg/m ³ TWA	None

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Physical state: Liquid
Color: Clear
Odor: Sweet

HMIS:

HEALTH: 2
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

WARNING: HARMFUL IF INHALED.
POSSIBLE CANCER HAZARD.
CAUSES EYE AND SKIN IRRITATION.

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

Potential Health Effects

Inhalation: Exposure to high doses may cause central nervous system depression. Such doses may also cause adverse effects in the liver, kidneys, and lungs. The solvent vapors can be harmful and cause headache, nausea, and intoxication. Exposure to high concentrations can cause irregular heartbeat and cardiac arrest. Extreme overexposure may result in unconsciousness and possibly death. Carboxyhemoglobin levels can be elevated in persons exposed to methylene chloride and can cause substantial stress on the cardiovascular system. This elevation can be additive to the increase caused by smoking and other carbon monoxide sources.

Skin contact: May cause severe irritation due to defatting of skin. Prolonged contact with skin may cause dermatitis. Prolonged single exposure can result in progressively severe burning sensation and redness. May be harmful if absorbed through skin.

Eye contact: Vapors may irritate eyes. Contact with eyes will cause irritation.

Ingestion: Moderately toxic by ingestion. Ingestion may cause health effects as described in Inhalation section. If vomiting occurs. Methylene chloride can be aspirated into lungs, which can cause chemical pneumonia and synthetic effects

Existing conditions aggravated by exposure: Alcoholism. Kidney disease. Liver disease. Anemia. Heart disease.

See Section 11 for additional toxicological information.

Item No. : 12121 / IDH No. 135238

Product name: EQUIPMENT FLUSHING SOLVENT Solvente Para Limpieza Del Equipo

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Skin contact:	Remove contaminated clothing and shoes. After contact with skin, wash immediately with plenty of water. Wash clothing before reuse. Get medical attention.
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Notes to physician:	Chlorinated hydrocarbons may sensitize the heart to epinephrine and other circulating catecholamines so that arrhythmia may occur. Careful consideration of this potential adverse should precede administration of epinephrine or other cardiac stimulants and the selection of bronchodilators.

5. FIRE-FIGHTING MEASURES

Flash point:	None. Tagliabue closed cup
Autoignition temperature:	556°C (1032°F)
Flammable/Explosive limits-lower %:	12 %
Flammable/Explosive limits-upper %:	19 %
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Special fire fighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards:	Concentrated vapors can be ignited by high intensity energy source. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products.
Hazardous combustion products:	Hydrogen chloride. Phosgene. Chlorine.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Do not flush into surface water or sanitary sewer system.
Clean-up methods:	Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Soak up with inert absorbent. Contain the spill in a closed container until disposal.

7. HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Do not breathe mist or vapors. Do not taste or swallow.
Storage:	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
Incompatible products:	Contact with aluminum parts in a pressurizable fluid system may cause violent reactions. Aluminum equipment should not be used for storage and/or transfer.

For information on product shelf life contact Henkel 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:	If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH. A NIOSH approved self-contained breathing apparatus with full face shield is required for methylene chloride concentrations above 625 ppm and for spills and emergencies.

Item No. : 12121 / IDH No. 135238

Product name: EQUIPMENT FLUSHING SOLVENT Solvente Para Limpieza Del Equipo

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. Solvent resistant gloves such as Viton, poly (vinyl alcohol), or equivalent is recommended.

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

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Clear
Odor: Sweet
Vapor pressure: 350 mmHg @20°C (68° F)
pH: Not applicable
Boiling point/range: 40.1°C (104°F)
Melting point/range: Not available
Specific gravity: 1.31 at 25°C (77°F)
Vapor density: 2.93
Evaporation rate: 0.7
Solubility in water: 1.32g per 100g water @ 25°C (77°F)
Partition coefficient (n-octanol/water): Not available
VOC content: <1%; <10 grams/liter

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous polymerization: Will not occur.

Hazardous decomposition products: Hydrogen chloride gas. Phosgene. Chlorine.

Incompatibility: Strong oxidizers. Oxygen. Peroxides. Sodium. Potassium. Oxidizers. Reactive metals.

Conditions to avoid: Heat, flames and sparks.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Methylene chloride 75-09-2	Suspect Carcinogen	Group 2B	Yes
Propylene oxide 75-56-9	Suspect Carcinogen	Group 2B	Yes

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Methylene chloride 75-09-2	Central nervous system, Irritant, Kidney, Liver, Some evidence of carcinogenicity, Corrosive, Blood, Cardiac
Propylene oxide 75-56-9	Corrosive, Irritant, Mutagen, Nervous System, 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: Dispose of according to Federal, State and local governmental regulations.

EPA hazardous waste number: U080 - Methylene Chloride

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: Dichloromethane
Hazard class or division: 6.1
Identification number: UN 1593
Packing group: III
Exceptions: (Not more than 4 L) Consumer Commodity ORM-D
DOT reportable quantity (lbs): Dichloromethane is reportable at 1000 pounds (454 kg).
Marine pollutant: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Dichloromethane
Hazard class or division: 6.1
Identification number: UN1593
Packing group: III

Water Transportation (IMO/IMDG):

Proper shipping name: Dichloromethane
Hazard class or division: 6.1
Identification number: UN1593
Packing group: III
Marine pollutant: 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: Methylene Chloride (CAS# 75-09-2).

CERCLA/SARA Section 302 EHS: Propylene Oxide (CAS #75-56-9).
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard
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). Methylene chloride (CAS# 75-09-2). Propylene oxide (CAS# 75-56-9).

California Proposition 65: This product contains a chemical known to the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class: D.1.B, D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 15

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