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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: FREKOTE 770-NC AEROSOL/400ML Product type: Mold Release Company address: Henkel Corporation 1001 Trout Brook Crossing Rocky Hill, Connecticut 06067	Item No. : 83469 / IDH No. 398489 Region: United States Contact Information: Telephone: 860.571.5100 Emergency telephone: 860.571.5100 Internet: www.loctite.com
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Contains one or more components for which a Toxic Substances Control Act (TSCA) Low Volume Exemption (LVE) applies. See Section 15.

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Naphtha(petroleum), light alkylate 64741-66-8	60-100	None	None	281ppm TWA (Total Hydrocarbons)
Liquefied petroleum gas 68476-85-7	10-30	1000 ppm TWA	1000 ppm TWA 1800 mg/m ³ TWA	None
Resin Proprietary	1-5	None	None	None
Stoddard solvent 8052-41-3	1-5	100 ppm TWA	2900 mg/m ³ TWA 500 ppm TWA	None
Xylene 1330-20-7	0.1-1	100 ppm TWA 150 ppm STEL	100 ppm TWA 435 mg/m ³ TWA	None
Ethyl benzene 100-41-4	0.1-1	100 ppm TWA 125 ppm STEL	100 ppm TWA 435 mg/m ³ TWA	None
1,2,4-Trimethylbenzene 95-63-6	0.1-1	25 ppm TWA	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Aerosol
Color: Clear Colorless
Odor: Slight

HMIS:

HEALTH:	1*
FLAMMABILITY:	4
PHYSICAL HAZARD:	0
Personal Protection:	See Section 8

DANGER: EXTREMELY FLAMMABLE LIQUID AND VAPOR
 VAPOR MAY CAUSE FLASH FIRE
 CONTENTS UNDER PRESSURE.
 MAY AFFECT THE CENTRAL NERVOUS SYSTEM.
 CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: Vapors and mists will irritate nose and throat and possibly eyes. High vapor concentrations (greater than approximately 1000 ppm) may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

Skin contact: Solvent action can dry and defat the skin, causing the skin to crack, leading to dermatitis.

Eye contact:
Ingestion:

Vapors may irritate eyes. Contact with eyes will cause irritation.
May cause central nervous system effects, such as headache, nausea, vomiting, abdominal pain, dizziness, confusion, breathing difficulties.

Existing conditions aggravated by exposure:

Asthma. Other respiratory disorders (bronchitis, emphysema, bronchial hyperreactivity). Eczema. Dermatitis. Other pre-existing skin conditions.

See Section 11 for additional toxicological information.

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: Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Wash clothing before reuse. If skin irritation persists, call a physician.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Check for and remove any contact lenses. Get medical attention.

Ingestion: Keep individual calm. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. If vomiting occurs, prevent aspiration by keeping the patient's head below the knees. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash point: Flammable by flame extension

Autoignition temperature: Not available

Flammable/Explosive limits-lower %: Not available

Flammable/Explosive limits-upper %: Not available

Extinguishing media: Carbon dioxide (CO₂). Dry powder. Alcohol-resistant foam. Water spray. Do not use high volume water jet.

Special fire fighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Water may be unsuitable as an extinguishing media, but may be helpful in keeping adjacent containers cool. Keep personnel upwind of fire.

Unusual fire or explosion hazards: Contents under pressure. Do not puncture or incinerate pressurized containers. Containers exposed to fire should be cooled with water to prevent vapor pressure buildup which could result in container rupture. If a leak or spill has not ignited use water spray to disperse vapors. The liquid is volatile and gives off invisible vapors. Vapors may form explosive mixtures with air. Do not store or use near heat, spark, open flame or other sources of ignition. Hydrocarbon solvents are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering or pumping at high flow rates. If this charge reaches a significantly high level, sparks can form that may ignite vapors of flammable liquids.

Hazardous combustion products: Oxides of carbon. Acrid smoke and fumes. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent product from entering drains or open waters. Advise authorities if product has entered or may enter sewers, water sources or extensive land areas. This product is insoluble in water and will float on surface.

Clean-up methods: Remove all ignition sources. Immediately contact emergency personnel. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Wear suitable protective clothing, gloves and eye/face protection. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a closed container until ready for disposal. Vapors are heavier than air and may travel along the ground or be moved by ventilation and subsequently ignited by heat, pilot lights or other ignition sources at locations distant from the material handling point.

7. HANDLING AND STORAGE

Handling:	During use and until all vapors are gone: Keep area ventilated - do not smoke; extinguish all flames, pilot lights, and heaters; turn off stoves, electrical tools and appliances, and any other sources of ignition. Do not puncture or incinerate containers. Avoid contact with eyes, skin and clothing. Avoid breathing vapor. Wash thoroughly after handling. For operations where eye or face contact could occur, provide safety shower and eyewash fountain.
Storage:	Store away from heat, sparks, flames, or other sources of ignition. Keep in a cool, well ventilated area. Store at or below 48.8°C (120°F).
Incompatible products:	Refer to Section 10.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Use explosion-proof mechanical ventilation and local exhaust to control contaminants to within their occupational exposure limits during the use of this product.
Respiratory protection:	Use a NIOSH approved air purifying respirator with an organic vapor cartridge if the potential to exceed established exposure limits exists.
Skin protection:	Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. Nitrile gloves. Polyvinyl alcohol gloves.
Eye/face protection:	Chemical splash goggles or safety glasses with side shields. In a splash hazard environment, chemical goggles should be used in combination with a full face shield. An eyewash and safety shower should be nearby and ready for use.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Aerosol
Color:	Clear Colorless
Odor:	Slight
Vapor pressure:	Greater than 2000 mm Hg
pH:	Not applicable
Boiling point/range:	Compressed Gas
Melting point/range:	Not determined
Specific gravity:	0.712
Vapor density:	Heavier than air
Evaporation rate:	Not determined
Solubility in water:	Insoluble.
Partition coefficient (n-octanol/water):	Not determined
VOC content:	90.55%; 644 grams/liter

10. STABILITY AND REACTIVITY

Stability:	Risk of ignition. Pressure build-up Stable at normal conditions
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	None under normal use.
Incompatibility:	Strong oxidizing agents. Strong acids and strong bases. Humid air. Water.
Conditions to avoid:	Keep away from open flames, hot surfaces and sources of ignition. Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F). Vapours may form explosive mixture with air. Fire or intense heat may cause violent rupture of packages.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Naphtha(petroleum), light alkylate 64741-66-8	No	No	No
Liquefied petroleum gas 68476-85-7	No	No	No
Resin Proprietary	No	No	No
Stoddard solvent 8052-41-3	No	No	No
Xylene 1330-20-7	No	No	No
Ethyl benzene 100-41-4	No	Group 2B	Yes
1,2,4-Trimethylbenzene 95-63-6	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Naphtha(petroleum), light alkylate 64741-66-8	No data
Liquefied petroleum gas 68476-85-7	Central nervous system, Lung, Irritant, Cardiac, Skin
Resin Proprietary	No data
Stoddard solvent 8052-41-3	Central nervous system, Irritant
Xylene 1330-20-7	Cardiac, Central nervous system, Irritant, Kidney, Liver
Ethyl benzene 100-41-4	Central nervous system, Irritant
1,2,4-Trimethylbenzene 95-63-6	Central nervous system, Irritant, Respiratory

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Do not puncture or incinerate pressurized cans. Dispose of according to Federal, State and local governmental regulations.

EPA hazardous waste number: D001: Ignitable.

14. TRANSPORT INFORMATION

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

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None
Exceptions: ORM-D Consumer Commodity (Up to 1 liter when shipped as originally packaged by Henkel only)

International Air Transportation (ICAO/IATA):

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

WaterTransportation (IMO/IMDG):

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN 1950

Item No. : 83469 / IDH No. 398489

Product name: FREKOTE 770-NC AEROSOL/400ML

Packing group:
Marine pollutant:

None
None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components of this product are listed on the U.S. Toxic Substances Control Act (TSCA) or are exempted from listing because a Low Volume Exemption (LVE) has been granted in accordance with 40 CFR 723.50.

TSCA 12 (b) Export Notification: None.

CERCLA/SARA Section 302 EHS: None.
CERCLA/SARA Section 311/312: Pressure, Fire, Immediate 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). Ethyl benzene (CAS# 100-41-4).

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: 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 Product Safety and Regulatory Affairs for details.

WHMIS hazard class: A, B.5, D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 2, 3, 8, 15

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