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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: FREKOTE 810-NC AE	Item No. : 83479 / IDH No. 398491
Product type: Mold Release	Region: United States
Company address: Henkel Corporation 1001 Trout Brook Crossing Rocky Hill, Connecticut 06067	Contact Information: Telephone: 860.571.5100 Emergency telephone: 860.571.5100 Internet: www.loctite.com

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>
Hydrotreated heavy naphtha 64742-48-9	60-100	None	None	225 ppm TWA
Liquefied petroleum gas 68476-85-7	10-30	1000 ppm TWA	1000 ppm TWA 1800 mg/m ³ TWA	None
Petroleum distillates, hydrotreated light 64742-47-8	10-30	None	None	None
Proprietary resin compound Proprietary	0.1-1	None	None	None

3. HAZARDS IDENTIFICATION

<u>EMERGENCY OVERVIEW</u>	
Physical state: Aerosol	HEALTH: 1*
Color: Clear Colorless	FLAMMABILITY: 4
Odor: Mild	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: Inhalation, Skin contact, Eye contact

Potential Health Effects

Inhalation:	Vapors and mists will irritate the respiratory tract and nasal passages. 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:	Liquid, aerosols or vapor are irritating and can cause tearing, reddening and swelling.
Ingestion:	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). Dermatitis. Eczema. 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.
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 ASTM D 3065
Autoignition temperature:	Not available
Flammable/Explosive limits-lower %:	Not available
Flammable/Explosive limits-upper %:	Not available
Extinguishing media:	Carbon dioxide (CO ₂). 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. Oxides of nitrogen. 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. Avoid contact with eyes, skin and clothing. Avoid breathing vapor. Wash thoroughly after handling. Do not puncture or incinerate containers. 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). Keep containers closed when not in use.
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.
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:	Mild
Vapor pressure:	1551-1809 mmHg
pH:	Not applicable
Boiling point/range:	Compressed Gas
Melting point/range:	Not available
Specific gravity:	0.73
Vapor density:	4.08
Evaporation rate:	Less than 0.3
Solubility in water:	Insoluble.
Partition coefficient (n-octanol/water):	Not available
VOC content:	Not available

10. STABILITY AND REACTIVITY

Stability:	Risk of ignition. Stable at normal conditions
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	None under normal use.
Incompatibility:	Oxidizing agents.
Conditions to avoid:	Keep away from open flames, hot surfaces and sources of ignition. Storage with incompatible materials. 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
Hydrotreated heavy naphtha 64742-48-9	No	No	No
Liquefied petroleum gas 68476-85-7	No	No	No
Petroleum distillates, hydrotreated light 64742-47-8	No	No	No
Proprietary resin compound Proprietary	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Hydrotreated heavy naphtha 64742-48-9	Irritant
Liquefied petroleum gas 68476-85-7	Central nervous system, Lung, Irritant, Cardiac, Skin
Petroleum distillates, hydrotreated light 64742-47-8	Irritant
Proprietary resin compound Proprietary	No data

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

Water Transportation (IMO/IMDG):

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None
Marine pollutant: 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:	Immediate Health Hazard, Fire, Pressure
CERCLA/SARA 313:	None.
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status:	One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or 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.B

16. OTHER INFORMATION

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

Prepared by: Dan Shaw, Product Safety and Regulatory Affairs Specialist
For Safety and Regulatory Information contact:
Product Safety and Regulatory Affairs,
Rocky Hill, CT.
860-571-5204

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