

**Revision Date:** 10/02/2006

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product name:</b> FREKOTE 710-NC/5 GALLON <b>Product type:</b> Mold Release Solvent <b>Company address:</b> Henkel Corporation 1001 Trout Brook Crossing Rocky Hill, Connecticut 06067	<b>Item No. :</b> 38430 / IDH No. 549257 <b>Region:</b> United States <b>Contact Information:</b> 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>
Hydrotreated heavy naphtha 64742-48-9	60-100	None	None	225 ppm TWA
Dibutyl Ether 142-96-1	10-30	None	None	None
Octane 111-65-9	1-5	300 ppm TWA	2350 mg/m <sup>3</sup> TWA 500 ppm TWA	None
Proprietary Resin Proprietary	1-5	None	None	None

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

<b>Physical state:</b> Liquid <b>Color:</b> Colorless <b>Odor:</b> Mild, Solvent	<b>HMIS:</b> <b>HEALTH:</b> 1* <b>FLAMMABILITY:</b> 3 <b>PHYSICAL HAZARD:</b> 0 <b>Personal Protection:</b> See Section 8
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**WARNING:** FLAMMABLE LIQUID AND VAPOR.  
 MAY AFFECT THE CENTRAL NERVOUS SYSTEM.  
 ASPIRATION HAZARD IF SWALLOWED.  
 CAN ENTER LUNGS AND CAUSE DAMAGE.  
 MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

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

### Potential Health Effects

<b>Inhalation:</b>  <b>Skin contact:</b> <b>Eye contact:</b> <b>Ingestion:</b>	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. Solvent action can dry and defat the skin, causing the skin to crack, leading to dermatitis. Vapors may irritate eyes. Contact with eyes will cause irritation. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Central nervous system depression, including dizziness, drowsiness, fatigue, nausea, headache, unconsciousness.
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**Existing conditions aggravated by exposure:** Dermatitis. Eczema. Other pre-existing skin conditions. Asthma. Other respiratory disorders (bronchitis, emphysema, bronchial hyperreactivity).

**See Section 11 for additional toxicological information.**

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Skin contact:</b>	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Wash clothing before reuse. If symptoms persist, obtain medical attention.
<b>Eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention.
<b>Ingestion:</b>	Keep individual calm. Do not induce vomiting; contains petroleum distillates and/or aromatic solvents. Never give anything by mouth to an unconscious person. Get medical attention immediately. If vomiting occurs, prevent aspiration by keeping the patients head below the knees.
<b>Notes to physician:</b>	This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash point:</b>	31°C (87°F) Tagliabue closed cup
<b>Autoignition temperature:</b>	>200°C (>392°F) (value for solvent).
<b>Flammable/Explosive limits-lower %:</b>	Not available
<b>Flammable/Explosive limits-upper %:</b>	Not available
<b>Extinguishing media:</b>	Carbon dioxide (CO2). Dry powder. Alcohol-resistant foam. Water spray. Do not use high volume water jet.
<b>Special fire fighting procedures:</b>	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.
<b>Unusual fire or explosion hazards:</b>	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.
<b>Hazardous combustion products:</b>	See section 10. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Environmental precautions:</b>	Prevent product from entering drains or open waters. Advise authorities if product has entered or may enter seweres, water sources or extensive land areas. Prevent further leakage or spillage if safe to do so. This product is insoluble in water and will float on surface.
<b>Clean-up methods:</b>	Remove all ignition sources. Ventilate area. 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. Keep people away from and upwind of spill/leak. Wear suitable protective clothing, gloves and eye/face protection.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	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. Make sure containers are properly grounded before use or transfer of material. Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. For operations where eye or face contact could occur, provide safety shower and eyewash fountain.
<b>Storage:</b>	Store away from heat, sparks, flames, or other sources of ignition. Keep container closed. Do not store above 48.8°C (120°F).
<b>Incompatible products:</b>	Refer to Section 10.

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

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering controls:</b>	Use explosion-proof mechanical ventilation and local exhaust to control contaminants to within their occupational exposure limits during the use of this product.
<b>Respiratory protection:</b>	Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.
<b>Skin protection:</b>	Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.
<b>Eye/face protection:</b>	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

<b>Physical state:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Mild, Solvent
<b>Vapor pressure:</b>	Not available
<b>pH:</b>	Not applicable
<b>Boiling point/range:</b>	Greater than 112°C (235°F)
<b>Melting point/range:</b>	Not determined
<b>Specific gravity:</b>	.754
<b>Vapor density:</b>	Heavier than air
<b>Evaporation rate:</b>	Slower than ether.
<b>Solubility in water:</b>	Slight
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>VOC content:</b>	754 grams/liter of coating

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Risk of ignition. Stable under normal conditions of storage and use.
<b>Hazardous polymerization:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	Hydrocarbons. Carbon monoxide. Traces of Ammonia.
<b>Incompatibility:</b>	Strong oxidizing agents. Humid air. Water.
<b>Conditions to avoid:</b>	Avoid static discharge. Vapours may form explosive mixture with air. Spray mist may be flammable at temperatures below the flash point. Keep away from open flames, hot surfaces and sources of ignition. Exposure to air or moisture over prolonged periods. 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
Dibutyl Ether 142-96-1	No	No	No
Octane 111-65-9	No	No	No
Proprietary Resin Proprietary	No	No	No

**Literature Referenced Target Organ & Other Health Effects**

Hazardous components	Health Effects/Target Organs
Hydrotreated heavy naphtha 64742-48-9	Irritant
Dibutyl Ether 142-96-1	Irritant
Octane 111-65-9	Irritant, Central nervous system, Lung
Proprietary Resin Proprietary	No data

**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: D001: Ignitable.

**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: RESIN SOLUTION  
Hazard class or division: 3  
Identification number: UN 1866  
Packing group: III

**International Air Transportation (ICAO/IATA):**

Proper shipping name: RESIN SOLUTION  
Hazard class or division: 3  
Identification number: UN 1866  
Packing group: III

**Water Transportation (IMO/IMDG):**

Proper shipping name: RESIN SOLUTION  
Hazard class or division: 3  
Identification number: UN 1866  
Packing group: III  
Marine pollutant: None known

## 15. REGULATORY INFORMATION

### United States Regulatory Information

<b>TSCA 8 (b) Inventory Status:</b>	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.
<b>TSCA 12 (b) Export Notification:</b>	None.
<b>CERCLA/SARA Section 302 EHS:</b>	None.
<b>CERCLA/SARA Section 311/312:</b>	Fire, Immediate Health Hazard
<b>CERCLA/SARA 313:</b>	None.
<b>California Proposition 65:</b>	No California Proposition 65 listed chemicals are known to be present.

### Canada Regulatory Information

<b>CEPA DSL/NDSL Status:</b>	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. Please contact Product Safety and Regulatory Affairs for more information.
<b>WHMIS hazard class:</b>	B.2, D.2.B

## 16. OTHER INFORMATION

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

**Prepared by:** Dan Shaw, Product Safety and Regulatory Affairs Specialist

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