



Revision Number: 002.1

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**1. IDENTIFICATION**

<b>Product name:</b>	<b>LOCTITE FREKOTE 770-NC known as LOCTITE FREKOTE 770NC</b>	<b>IDH number:</b>	416032
<b>Product type/ Recommended use:</b>	Release agent	<b>Item number:</b>	83468
<b>Restriction of Use:</b>	None identified	<b>Region:</b>	Canada
<b>Company address:</b>	<b>Contact information:</b>		
Henkel Canada Corporation	Telephone: +1 (905) 814-6511		
Meadowpine Boulevard 2515	MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711		
Mississauga, Ontario L5N 6C3	TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887		
	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**

**DANGER:** H225 - HIGHLY FLAMMABLE LIQUID AND VAPOUR.  
H304 - MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.  
H315 - CAUSES SKIN IRRITATION.  
H336 - MAY CAUSE DROWSINESS OR DIZZINESS.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	2
SKIN IRRITATION	2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
ASPIRATION HAZARD	1

**PICTOGRAM(S)**



**Precautionary Statements**

- Prevention:**
- P210 - Keep away from heat, sparks, open flames, hot surfaces - no smoking.
  - P233 - Keep container tightly closed.
  - P240 - Ground and bond container and receiving equipment.
  - P241 - Use explosion-proof equipment.
  - P242 - Use non-sparking tools.
  - P243 - Take action to prevent static discharges.
  - P261 - Avoid breathing mist/vapours.
  - P264 - Wash affected area thoroughly after handling.
  - P271 - Use only outdoors or in a well-ventilated area.
  - P280 - Wear protective gloves, clothing, eye and face protection.

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**Response:** P301+P310 - IF SWALLOWED: Immediately call a physician or poison control center.  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing.  
P304+P340+P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.  
P331 - Do NOT induce vomiting.  
P332+P313 - If skin irritation occurs: Get medical attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

**Storage:** P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.

**Disposal:** P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

**Other hazards** Not available.

Classification complies with Canadian Hazardous Products Regulations and is consistent with the provision of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Weight %*
Hydrocarbons, C7-C9, isoalkanes	1174921-67-5	80 - 100
Reaction product of tris(n-methylamino)methylsilane (TMAS) and silanol terminated polydimethylsiloxane (PDMS)	1432471-92-5	1 - 5

\* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

### 4. FIRST AID MEASURES

#### First Aid Measures by likely routes of exposure

**Inhalation:** Get medical attention. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Move to fresh air.

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

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention.

**Ingestion:** Never give anything by mouth to an unconscious person. Get immediate medical attention. Keep individual calm. If vomiting occurs, prevent aspiration by keeping the patient's head below the knees. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

**Most important symptoms and effects (acute and delayed):** The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.

**Indication of any immediate medical attention / special treatment needed:** 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>Extinguishing media:</b>	Dry powder. Alcohol-resistant foam Carbon dioxide. Water spray or fog. Do not use high volume water jet.
<b>Improper extinguishing agents:</b>	Not available.
<b>Special firefighting procedures:</b>	Keep personnel upwind of fire. 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.
<b>Unusual fire or explosion hazards:</b>	Vapors may form explosive mixtures with air. Do not handle or store near an open flame, heat 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>	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Oxides of nitrogen. Oxides of carbon.

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

<b>Environmental precautions:</b>	Do not allow product to enter sewer or waterways. This product is insoluble in water and will float on surface. Prevent further leakage or spillage if safe to do so. Advise authorities if product has entered or may enter sewers, water sources or extensive land areas.
<b>Clean-up methods:</b>	Remove all sources of ignition. Ventilate area. Store in a closed metal container until ready for disposal. 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). Keep upwind of the spilled material and isolate exposure.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	For operations where eye or face contact could occur, provide safety shower and eyewash fountain. 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. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.
<b>Storage:</b>	Keep container closed. Store away from heat, sparks, flames, or other sources of ignition.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

## 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 Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
None	None	None	None	None

<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.
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<b>Respiratory protection:</b>	Use a NIOSH approved supplied air respirator with an organic cartridge if the potential to exceed established exposure limits exists.
<b>Eye/face protection:</b>	Wear chemical goggles or a full face shield. Safety showers and eye wash stations should be available. Safety goggles or safety glasses with side shields.
<b>Skin protection:</b>	Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	Clear
<b>Odor:</b>	Of hydrocarbons
<b>Odor threshold:</b>	Not available.
<b>pH:</b>	Not applicable, Product reacts with water.
<b>Vapor pressure:</b>	173 mbar (20 °C (68°F))
<b>Boiling point/range:</b>	> 112 °C (> 233.6 °F)
<b>Melting point/ range:</b>	Not applicable, Product is a liquid
<b>Density/Relative density:</b>	0.720
<b>Relative vapor density:</b>	3.9 20 °C
<b>Flash point:</b>	7 °C (44.6 °F)
<b>Flammable/Explosive limits - lower:</b>	0.9 %
<b>Flammable/Explosive limits - upper:</b>	Not available.
<b>Autoignition temperature:</b>	The substance or mixture is not classified as pyrophoric.
<b>Flammability:</b>	flammable
<b>Evaporation rate:</b>	Not available.
<b>Solubility:</b>	Polymerises in presence of water. Water
<b>Partition coefficient n-octanol/water (logarithmic value):</b>	Not available.
<b>VOC content:</b>	98.5 %
<b>Dynamic viscosity:</b>	Not available.
<b>Kinematic viscosity:</b>	0.72 mm <sup>2</sup> /s
<b>Particle characteristics:</b>	Not applicable, Product is a liquid
<b>Decomposition temperature:</b>	Not available.

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of storage and use. Risk of ignition.
<b>Hazardous reactions:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	Hydrocarbons.
<b>Incompatible materials:</b>	Strong oxidizing agents.
<b>Reactivity:</b>	Not available.
<b>Conditions to avoid:</b>	Keep away from open flames, hot surfaces and sources of ignition. Avoid static discharge. Exposure to air or moisture over prolonged periods. Spray mist may be flammable at temperatures below the flash point. Fire or intense heat may cause violent rupture of packages. Vapors may form explosive mixtures with air.

## 11. TOXICOLOGICAL INFORMATION

<b>Likely routes of exposure:</b>	Skin, Inhalation, Eyes, Ingestion
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**Potential Health Effects/Symptoms**

**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:** Causes skin irritation. Solvent action can dry and defat the skin, causing the skin to crack, leading to dermatitis.

**Eye contact:** Causes serious eye irritation.

**Ingestion:** Central nervous system depression, including dizziness, drowsiness, fatigue, nausea, headache, unconsciousness. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

Hazardous Component(s)	LD50s and LC50s
Hydrocarbons, C7-C9, isoalkanes	None
Reaction product of tris(n-methylamino)methylsilane (TMAS) and silanol terminated polydimethylsiloxane (PDMS)	None

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Hydrocarbons, C7-C9, isoalkanes			
Reaction product of tris(n-methylamino)methylsilane (TMAS) and silanol terminated polydimethylsiloxane (PDMS)			

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Hydrocarbons, C7-C9, isoalkanes	No	No	No
Reaction product of tris(n-methylamino)methylsilane (TMAS) and silanol terminated polydimethylsiloxane (PDMS)	No	No	No

**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.

**14. TRANSPORT INFORMATION**

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

**Canada Transportation of Dangerous Goods - Ground**

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

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

**Proper shipping name:** Resin solution  
**Hazard class or division:** 3  
**Identification number:** UN 1866  
**Packing group:** II

**Water Transportation (IMO/IMDG)**

**Proper shipping name:** RESIN SOLUTION (Isoalkane C7 - C10)  
**Hazard class or division:** 3  
**Identification number:** UN 1866  
**Packing group:** II  
**Marine pollutant:** Isoalkane C7 - C10

**15. REGULATORY INFORMATION****Canada Regulatory Information**

**CEPA DSL/NDL 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.

**United States Regulatory Information**

**TSCA 8 (b) Inventory Status:** All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.  
This product contains one or more components with a Low Volume Exemption (LVE) in accordance with 40 CFR 723.50. Quantities may be limited.

**16. OTHER INFORMATION**

**This safety data sheet contains changes from the previous version in sections:** 3,8,9,11

**Prepared by:** Product Safety and Regulatory Affairs

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