



Revision Number: 005.1

Issue date: 05/31/2025

## 1. IDENTIFICATION

**Product name:** LOCTITE FREKOTE LIFFT AE known as FREKOTE LIFFT AE  
**Product type/Recommended use:** Mold Release  
**Restriction of Use:** None identified  
**Company address:** Henkel Corporation  
 One Henkel Way  
 Rocky Hill, Connecticut 06067

**IDH number:** 471913  
**Item number:** 83551  
**Region:** United States  
**Contact information:**  
 Telephone: +1 (860) 571-5100  
 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  
 MEDICAL EMERGENCY Phone: Poison Control Center  
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 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:** H222 - EXTREMELY FLAMMABLE AEROSOL.  
 H229 - PRESSURIZED CONTAINER: MAY BURST IF HEATED.  
 H304 - MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.  
 H315 - CAUSES SKIN IRRITATION.  
 H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.  
 H319 - CAUSES SERIOUS EYE IRRITATION.  
 H336 - MAY CAUSE DROWSINESS OR DIZZINESS.

HAZARD CLASS	HAZARD CATEGORY
AEROSOL	1
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1
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.  
 P211 - Do not spray on an open flame or other ignition source.  
 P251 - Do not pierce or burn, even after use.  
 P261 - Avoid breathing mist or spray.  
 P264 - Wash affected area thoroughly after handling.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P272 - Contaminated work clothing should not be allowed out of the workplace.  
 P280 - Wear protective gloves, eye protection, and face protection.

**Response:** P301+P310 - IF SWALLOWED: Immediately call a physician or poison control center.  
 P302+P352 - IF ON SKIN: Wash with plenty of water.  
 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.

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**Storage:** P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P331 - Do NOT induce vomiting.  
P333+P313 - If skin irritation or rash occurs: Get medical attention.  
P337+P313 - If eye irritation persists: Get medical attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
**Disposal:** P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

**Other hazards** Not available.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions 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 %*
Alkanes, C7-10-iso-	90622-56-3	60 - 80
propane	74-98-6	10 - 30
Trimethoxy(methyl)silane	1185-55-3	0.1 - 1
Stoddard solvent, <0.1% Benzene	8052-41-3	0.1 - 1
Xylenes	1330-20-7	0.1 - 1
Ethylbenzene	100-41-4	0.1 - 1

\* 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

<b>Inhalation:</b>	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Skin contact:</b>	Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). If symptoms develop and persist, get medical attention. Wash clothing before reuse.
<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 immediate medical attention. If vomiting occurs, prevent aspiration by keeping the patient's head below the knees.
<b>Most important symptoms and effects (acute and delayed):</b>	The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.
<b>Indication of any immediate medical attention / special treatment needed:</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>Extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide. Do not use high volume water jet.
<b>Improper extinguishing agents:</b>	Not available.
<b>Special firefighting 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.

**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 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.

**Hazardous combustion products:**

Oxides of carbon. Irritating organic vapours. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## 6. ACCIDENTAL RELEASE MEASURES

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

**Environmental precautions:**

Do not allow product to enter sewer or waterways. 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 sources of ignition. Ventilate area. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a closed metal container until ready for disposal. Keep upwind of the spilled material and isolate exposure. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

## 7. HANDLING AND STORAGE

**Handling:**

Do not puncture or incinerate pressurized containers. 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. Do not breathe gas/fumes/vapor/spray. Do not taste or swallow. Wash thoroughly after handling. For operations where eye or face contact could occur, provide safety shower and eyewash fountain.

**Storage:**

For safe storage, store at or below 48.8 °C (119.8 °F)  
Keep in a cool, well ventilated area away from heat, sparks and open flame.  
Keep container tightly closed until ready for use.

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
propane	D: Simple asphyxiant, EX: Explosion hazard (Simple asphyxiant.)	1,000 ppm (1,800 mg/m3) PEL	None	None
Trimethoxy(methyl)silane	None	None	10 ppm (55 mg/m3) TWA	None

**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 NIOSH approved respirator if there is potential to exceed exposure limit(s).

**Eye/face protection:**

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.

**Skin protection:**

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Aerosol
Color:	Clear
Odor:	Mild
Odor threshold:	Not available.
pH:	Not applicable
Vapor pressure:	2068 - 2327 mm hg
Boiling point/range:	Compressed Gas.
Melting point/ range:	Not available.
Density/Relative density:	0.68
Relative vapor density:	3.16
Flash point:	Flammable.
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flammability:	Extremely flammable aerosol.
Evaporation rate:	5 (Ether = 1)
Solubility:	Insoluble Water
Partition coefficient n-octanol/water (logarithmic value):	Not available.
VOC content:	91 %; 619 g/l EPA Method 24
Dynamic viscosity:	Not available.
Kinematic viscosity:	Not available.
Particle characteristics:	Not available.
Decomposition temperature:	Not available.

## 10. STABILITY AND REACTIVITY

Stability:	Risk of ignition. Pressure build-up. Stable under normal conditions of storage and use.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	Oxides of carbon. Irritating organic vapours.
Incompatible materials:	Strong oxidizing agents. Strong acids and strong bases. Humid air. Water.
Reactivity:	Not available.
Conditions to avoid:	Keep away from heat, spark and flame. Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F). Vapors may form explosive mixtures with air. Fire or intense heat may cause violent rupture of packages. Store away from incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Skin, Inhalation, Eyes, Ingestion
Likely routes of exposure:	Skin, Inhalation, Eyes, Ingestion

## Potential Health Effects/Symptoms

<b>Inhalation:</b>	Vapors and mists will irritate nose and throat and possibly eyes. Central nervous system depression, including dizziness, drowsiness, fatigue, nausea, headache, unconsciousness.
<b>Inhalation:</b>	
<b>Skin contact:</b>	Causes skin irritation. Solvent action can dry and defat the skin, causing the skin to crack, leading to dermatitis. May cause an allergic skin reaction.
<b>Skin contact:</b>	Solvent action can dry and defat the skin, causing the skin to crack, leading to dermatitis. May cause allergic skin reaction. Causes skin irritation.
<b>Eye contact:</b>	Causes serious eye irritation.
<b>Eye contact:</b>	Causes serious eye irritation.
<b>Ingestion:</b>	This product may be fatal if it is swallowed. Aspiration may occur during swallowing or vomiting, resulting in lung damage. May cause central nervous system effects, such as headache, nausea, vomiting, abdominal pain, dizziness, confusion, and breathing difficulties.
<b>Ingestion:</b>	May cause central nervous system effects, such as headache, nausea, vomiting, abdominal pain, dizziness, confusion, and breathing difficulties.

Hazardous Component(s)	LD50s and LC50s
Alkanes, C7-10-iso-	None
propane	Inhalation LC50 (Rat, 4 h) = > 13023 ppm Inhalation LC50 (Rat, 4 h) = > 13023 ppm
Trimethoxy(methyl)silane	Inhalation LC50 (Rat, 4 h) = > 26000 ppm
Stoddard solvent, <0.1% Benzene	None
Xylenes	Oral LD50 (Rat) = 6,670 mg/kg Oral LD50 (Rat) = 3,523 - 8,600 mg/kg Oral LD50 (Rat) = 4,300 mg/kg Dermal LD50 (Rabbit) = > 43 g/kg Inhalation LC50 (Rat, 4 h) = 6580 ppm Inhalation LC50 (Rat, 4 h) = 6247 ppm Inhalation LC50 (Rat, 4 h) = 5922 ppm Inhalation LC50 (Rat, 4 h) = 6700 ppm Inhalation LC50 (Rat, 4 h) = 6350 ppm
Ethylbenzene	Oral LD50 (Rat) = 5.46 g/kg Oral LD50 (Rat) = 3,500 mg/kg Dermal LD50 (Rabbit) = 17,800 mg/kg Inhalation LC50 (Rat, 4 h) = 4000 ppm

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Alkanes, C7-10-iso-	Irritant		Central nervous system Lung Cardiac
propane	Irritant		Cardiac Central nervous system
Trimethoxy(methyl)silane	Irritant	Allergen	
Stoddard solvent, <0.1% Benzene	Irritant		Central nervous system
Xylenes	Irritant		Cardiac Central nervous system Kidney Liver
Ethylbenzene	Irritant		Central nervous system

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Alkanes, C7-10-iso-	No	No	No
propane	No	No	No
Trimethoxy(methyl)silane	No	No	No
Stoddard solvent, <0.1% Benzene	No	No	No
Xylenes	No	No	No
Ethylbenzene	No	Group 2B	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. Do not puncture or incinerate pressurized containers.

### 14. TRANSPORT INFORMATION

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

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

**Proper shipping name:** Aerosols  
**Hazard class or division:** 2.1  
**Identification number:** UN 1950  
**Packing group:** None  
**DOT Hazardous Substance(s):** Xylene (mixed)

#### 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 (Isoalkane C7 - C10)  
**Hazard class or division:** 2.1  
**Identification number:** UN 1950  
**Packing group:** None  
**Marine pollutant:** Isoalkane C7 - C10

### 15. REGULATORY INFORMATION

#### 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.

**TSCA 12 (b) Export Notification:** None above reporting de minimis

**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.

**CERCLA/SARA Section 311/312:** Please refer to the GHS classification in Section 2

**CERCLA/SARA Section 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). Ethylbenzene (CAS# 100-41-4).  
propane (CAS# 74-98-6) 100 lbs. (45.4 kg)

**CERCLA Reportable quantity:**

**California Proposition 65:** This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause 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. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

### 16. OTHER INFORMATION

**This safety data sheet contains changes from the previous version in sections:** New Safety Data Sheet format. 2, 3, 4, 8, 9, 11, 15

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

**Issue date:** 05/31/2025

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