



Revision Number: 008.0

Issue date: 08/21/2025

1. IDENTIFICATION

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|---|--|---------------------|--------|
| Product name: | LOCTITE FREKOTE FRP-NC known as FREKOTE FRP-NC1GA EN | IDH number: | 548982 |
| Product type/ Recommended use: | Release agent | Item number: | 38417 |
| Restriction of Use: | None identified | Region: | Canada |
| Company address: | Contact information: | | |
| 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: H226 - FLAMMABLE LIQUID AND VAPOUR.
H304 - MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.
H315 - CAUSES SKIN IRRITATION.
H319 - CAUSES SERIOUS EYE IRRITATION.
H336 - MAY CAUSE DROWSINESS OR DIZZINESS.

| HAZARD CLASS | HAZARD CATEGORY |
|--|-----------------|
| FLAMMABLE LIQUID | 3 |
| SKIN IRRITATION | 2 |
| EYE IRRITATION | 2A |
| 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.

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Response:

P271 - Use only outdoors or in a well-ventilated area.
 P280 - Wear protective gloves, clothing, eye and face protection.
 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.
 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.

Storage:

P332+P313 - If skin irritation occurs: Get medical attention.
 P337+P313 - If eye irritation persists: 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.
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
 P403+P235 - Store in a well-ventilated place. Keep cool.

Disposal:

P405 - Store locked up.
 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, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | 64742-48-9 | 80 - 100 |
| Dibutyl ether | 142-96-1 | 10 - 30 |
| 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: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

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

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

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| 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. Never give anything by mouth to an unconscious person. Get immediate medical attention. |
| 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. Treat symptomatically. |

5. FIRE FIGHTING MEASURES

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| Extinguishing media: | Water spray (fog), foam, dry chemical or carbon dioxide. Do not use high volume water jet. |
| Improper extinguishing agents: | Not available. |
| Special firefighting 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: | 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. Vapors may form explosive mixtures with air. |
| 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.

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| Environmental precautions: | Prevent further leakage or spillage if safe to do so. 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. Keep upwind of the spilled material and isolate exposure. Wear suitable protective clothing, gloves and eye/face protection. Use non-sparking tools for clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a partly filled, closed container until disposal. |

7. HANDLING AND STORAGE

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| 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. Do not breathe gas/fumes/vapor/spray. Make sure containers are properly grounded before use or transfer of material. Wash thoroughly after handling. Refer to Section 8. The workplace should be equipped with an emergency shower and eye-rinsing facility. |
| Storage: | For safe storage, store at or below 48.8 °C (119.8 °F) 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 |

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| 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 supplied air respirator if the potential to exceed established exposure limits exists. |
| 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

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| Physical state: | liquid |
| Color: | Colourless / Colorless |
| Odor: | Mild, Solvent |
| Odor threshold: | Not available. |
| pH: | Product is non-polar/aprotic., Not applicable |
| Vapor pressure: | 28 mbar (20 °C (68°F)) |
| Boiling point/range: | 141 °C (285.8 °F)1,013 hPa |
| Melting point/ range: | Not applicable, Product is a liquid |
| Density/Relative density: | 0.754 |
| Relative vapor density: | 20 °C Heavier than air. |
| Flash point: | 28 °C (82.4 °F) |
| Flammable/Explosive limits - lower: | 0.6 % The product is not explosive. The formation of explosive vapor/air mixtures is possible. |
| Flammable/Explosive limits - upper: | 8.5 % The product is not explosive. The formation of explosive vapor/air mixtures is possible. |
| Autoignition temperature: | The substance or mixture is not classified as pyrophoric. |
| Flammability: | flammable |
| Evaporation rate: | Slower than ether. |
| Solubility: | Slight Water |
| Solubility: | Soluble other organic solvents |
| Partition coefficient n-octanol/water (logarithmic value): | Not available. |
| VOC content: | > 94 % (calculated) |
| Dynamic viscosity: | Not available. |
| Kinematic viscosity: | 1.02 mm ² /s |
| Particle characteristics: | Not applicable, Product is a liquid |
| Decomposition temperature: | Not available. |

10. STABILITY AND REACTIVITY

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| Stability: | Risk of ignition. Stable under normal conditions of storage and use. |
| Hazardous reactions: | Will not occur. |
| Hazardous decomposition products: | Peroxides. Hydrocarbons. |
| Incompatible materials: | Reacts with air to form peroxides. Strong oxidizing agents. |
| Reactivity: | Not available. |
| Conditions to avoid: | Avoid static discharge. Will slowly degrade with exposure to oxygen (air). Vapors may form explosive mixtures with air. Spray mist may be flammable at temperatures below the flash point. Keep away from open flames, hot surfaces and sources of ignition. Fire or intense heat may cause violent rupture of packages. Protect from direct sunlight. |

11. TOXICOLOGICAL INFORMATION

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| Likely routes of exposure: | Skin, Inhalation, Eyes, Ingestion |
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Potential Health Effects/Symptoms

Inhalation: Breathing small amounts during normal handling is not likely to cause harmful effects; breathing large amounts may be harmful. May cause central nervous system effects, such as headache, nausea, vomiting, abdominal pain, dizziness, confusion, and breathing difficulties.

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

Eye contact: Causes serious eye irritation.

Ingestion: May cause gastrointestinal tract irritation if swallowed. May cause central nervous system effects, such as headache, nausea, vomiting, abdominal pain, dizziness, confusion, and breathing difficulties.

| Hazardous Component(s) | LD50s and LC50s |
|---|--|
| Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | Inhalation LC50 (Rat, 4 h) = > 8,530 mg/m3 Inhalation LC50 (Rat, 4 h) = > 5.36 mg/l |
| Dibutyl ether | Inhalation LC50 (Rat, 4 h) = 21,600 mg/m3 |
| 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, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | |
| Dibutyl ether | Irritant | | Central nervous system Cardiac Kidney Gastrointestinal Mutagen |
| 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, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | No | No | No |
| Dibutyl ether | 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: 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

15. REGULATORY INFORMATION

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.

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: This Safety Data Sheet contains changes from the previous version in Section(s): 2, 9, 11

Prepared by: Product Safety and Regulatory Affairs

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