



Revision Number: 005.1

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1. IDENTIFICATION

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|---------------------------------------|--|-----------------------------|--|
| Product name: | LOCTITE FREKOTE FREWAX known as FREKOTE® FREWAX® RELEASING INT | IDH number: | 548972 |
| Product type/ Recommended use: | Release agent | Item number: | 38411 |
| Restriction of Use: | None identified | Region: | Canada |
| Company address: | Henkel Canada Corporation Meadowpine Boulevard 2515 Mississauga, Ontario L5N 6C3 | Contact information: | Telephone: +1 (905) 814-6511 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 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 - No release into water.
- P241 - Use explosion-proof equipment.
- P242 - Use non-sparking tools.
- P243 - Take action to prevent static discharges.
- P261 - Avoid breathing mist/vapours.

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Response:

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.
 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.
 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.
 P405 - Store locked up.
 P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Storage:**Disposal:**

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 %* |
|---|------------|-----------|
| Naphtha (petroleum), hydrotreated heavy (<0.1% benzene) | 64742-48-9 | 30 - 60 |
| Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | 64742-48-9 | 30 - 60 |
| Octane | 111-65-9 | 1 - 5 |
| Polyvinyl chloride | 9002-86-2 | 0.1 - 1 |

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

Non hazardous components

Actual concentration or concentration range is withheld as a trade secret

4. FIRST AID MEASURES

First Aid Measures by likely routes of exposure

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

5. FIRE FIGHTING MEASURES

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| Extinguishing media: | Carbon dioxide. Dry powder. Alcohol-resistant foam. 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: | 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. Do not handle or store near an open flame, heat or other sources of ignition. Vapors may form explosive mixtures with air. |
| Hazardous combustion products: | Oxides of carbon and nitrogen, aldehydes, acids and undetermined organics. |

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: | 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. Prevent further leakage or spillage if safe to do so. This product is insoluble in water and will float on surface. |
| Clean-up methods: | Remove all sources of ignition. Ventilate area. 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). Spilled liquid is combustible and can be ignited by heat, flames, sparks, or other sources of ignition. Avoid inhalation of vapor, fumes, dust and/or mist from the spilled material. Keep upwind of the spilled material and isolate exposure. Store in a closed metal container until ready for disposal. |

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. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Make sure containers are properly grounded before use or transfer of material. For operations where eye or face contact could occur, provide safety shower and eyewash fountain. Refer to Section 8.

Storage: For safe storage, store at or below 48.8 °C (119.8 °F)
Store away from heat, sparks, flames, or other sources of ignition. Keep container closed.

Shelf Life Statement: Not available.

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 |
|---|-------------|--|-----------|-------------|
| Naphtha (petroleum), hydrotreated heavy (<0.1% benzene) | None | None | None | 196 ppm TWA |
| Octane | 300 ppm TWA | 500 ppm (2,350 mg/m ³) PEL | None | 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 a NIOSH approved air-purifying 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

Physical state: Liquid

Color: Colourless / Colorless

Odor: Of hydrocarbons

Odor threshold: Not available.

pH: Not applicable, Product is non-soluble (in water).

Vapor pressure: 21 hPa (50 °C (122°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) Tagliabue closed cup

Flammable/Explosive limits - lower: 0.6 % The product is not explosive. The formation of explosive vapor/air mixtures is possible.

Flammable/Explosive limits - upper: 7 % 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

Partition coefficient n-octanol/water (logarithmic value): Not available.

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| VOC content: | 754 g/l of coating |
| 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: | Hydrocarbons. Oxides of carbon. Traces of Ammonia. Amines. |
| Incompatible materials: | Strong oxidizing agents. Strong acids. Strong alkalis. Humid air. Water. |
| Reactivity: | Not available. |
| Conditions to avoid: | Exposure to air or moisture over prolonged periods. Avoid static discharge. Keep away from open flames, hot surfaces and sources of ignition. Vapors may form explosive mixtures with air. Spray mist may be flammable at temperatures below the flash point. 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: Vapors and mists will irritate nose and throat and possibly eyes.
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: This product may be fatal if it is swallowed. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Central nervous system depression, including dizziness, drowsiness, fatigue, nausea, headache, unconsciousness.

| Hazardous Component(s) | LD50s and LC50s |
|---|--|
| Naphtha (petroleum), hydrotreated heavy (<0.1% benzene) | Inhalation LC50 (Rat, 4 h) = > 8,530 mg/m3 Inhalation LC50 (Rat, 4 h) = > 5.36 mg/l |
| 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 |
| Octane | Inhalation LC50 (Rat, 4 h) = > 24.88 mg/l |
| Polyvinyl chloride | None |

| Hazardous Component(s) | Immediate Health Effects | Delayed Health Effects | Chronic Health Effects |
|---|--------------------------|------------------------|--------------------------------|
| Naphtha (petroleum), hydrotreated heavy (<0.1% benzene) | Irritant | | |
| Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | |
| Octane | Irritant | | Central nervous system Lung |
| Polyvinyl chloride | | | Respiratory |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|----------------|-----------------|--|
| Naphtha (petroleum), hydrotreated heavy (<0.1% benzene) | No | No | No |
| Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | No | No | No |
| Octane | No | No | No |
| Polyvinyl chloride | No | No | Yes |

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 (Naphtha (petroleum), hydrotreated heavy)
Hazard class or division: 3
Identification number: UN 1866
Packing group: III
Marine pollutant: Naphtha (petroleum), hydrotreated heavy

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: New Safety Data Sheet format. 9

Prepared by: Product Safety and Regulatory Affairs

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