Revision Number: 006.0 **Issue date:** 11/02/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	**LOCTITE FREKOTE 815NC known as FREKOTE 815NC**	**IDH number:**	471929
Product type:	Mold Release		
Restriction of Use:	None identified	**Region:**	United States
Company address:		**Contact information:** Telephone: Emergency Telephone:	

Contains one or more components for which a Toxic Substances Control Act (TSCA) Low Volume Exemption (LVE) applies. See Section 15.

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	
DANGER**:**	FLAMMABLE LIQUID AND VAPOR. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	3
SKIN IRRITATION	2
EYE IRRITATION	2A
ASPIRATION HAZARD	1

PICTOGRAM(S)

Precautionary Statements

Prevention:	Keep away from heat, sparks, open flames, hot surfaces - no smoking. Keep container tightly closed. No release into water. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash affected area thoroughly after handling. Wear protective gloves, eye protection, and face protection.
Response:	IF SWALLOWED: Immediately call a physician or poison control center. If on skin (or hair): Take off immediately all contaminated clothing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do NOT induce vomiting. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.
Storage:	Store in a well-ventilated place. Keep cool. Store locked up.
Disposal:	Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

3 % of the mixture consists of ingredient(s) of unknown acute toxicity.

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	Percentage*
Naphtha (petroleum), heavy alkylate	64741-65-7	60 - 100
Distillates (petroleum), hydrotreated light	64742-47-8	10 - 30
Solvent naphtha (petroleum), light aliphatic	Proprietary	1 - 5
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	64742-49-0	1 - 5
Distillates (petroleum), light distillate hydrotreating process, low-boiling	68410-97-9	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

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

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

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Check for and remove any contact lenses. Get medical attention.

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. Get immediate medical attention.

Symptoms: See Section 11.

Notes to physician: 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

Extinguishing media: Carbon dioxide. Dry powder. Alcohol-resistant foam. Water spray or fog. Do not use high volume water jet.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Keep personnel upwind of fire. Water may be unsuitable as an extinguishing media, but may be helpful in keeping adjacent containers cool.

Unusual fire or explosion hazards: 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. Vapors may travel considerable distance to source of ignition and flash back.

Hazardous combustion products: Oxides of nitrogen. Oxides of carbon. Amines. 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. 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. 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. Caution: release of nitrous fumes (poisoning) and carbon dioxide (suffocating).

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. 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)
Store away from heat, sparks, flames, or other sources of ignition. Keep container closed.

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), heavy alkylate	5 mg/m3 TWA	5 mg/m3 TWA 100 ppm (400 mg/m3) PEL	None	None
Distillates (petroleum), hydrotreated light	None	None	None	None
Solvent naphtha (petroleum), light aliphatic	None	None	None	None
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	None	100 ppm (400 mg/m3) PEL	None	None
Distillates (petroleum), light distillate hydrotreating process, low-boiling	None	5 mg/m3 PEL Mist.	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 supplied air respirator with an organic cartridge 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:	Colorless
Odor:	Mild, Solvent
Odor threshold:	Not available.
pH:	Not available.
Vapor pressure:	Not available.
Boiling point/range:	> 121 °C (> 249.8 °F)
Melting point/ range:	Not available.
Specific gravity:	0.75
Vapor density:	Heavier than air.
Flash point:	40 °C (104°F) Tagliabue closed cup
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flammability:	Not applicable
Evaporation rate:	Slower than ether.
Solubility in water:	Slightly soluble
Partition coefficient (n-octanol/water):	Not available.
VOC content:	99 %; 743 g/l
Viscosity:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.Risk of ignition.
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Oxides of carbon. Hydrocarbons. Traces of Ammonia.
Incompatible materials:	Strong oxidizing agents. Acids. Alkalis. Humid air. Water.
Reactivity:	Not available.
Conditions to avoid:	Avoid static discharge. 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. Exposure to air or moisture over prolonged periods. Fire or intense heat may cause violent rupture of packages.

11. TOXICOLOGICAL INFORMATION

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

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: 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	Immediate and Delayed Health Effects
Naphtha (petroleum), heavy alkylate	None	Irritant
Distillates (petroleum), hydrotreated light	None	Irritant
Solvent naphtha (petroleum), light aliphatic	None	Irritant
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	None	Central nervous system, Irritant, Kidney, Lung
Distillates (petroleum), light distillate hydrotreating process, low-boiling	None	No Data

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Naphtha (petroleum), heavy alkylate	No	No	No
Distillates (petroleum), hydrotreated light	No	No	No
Solvent naphtha (petroleum), light aliphatic	No	No	No
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene	No	No	No
Distillates (petroleum), light distillate hydrotreating process, low-boiling	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.

Hazardous waste number: D001: Ignitable.

14. TRANSPORT INFORMATION

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

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

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act 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:	Immediate Health, Delayed Health, Fire
CERCLA/SARA Section 313:	None above reporting de minimis.
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:	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.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by: Regulatory Affairs

Issue date: 11/02/2016

Distributed by:
Rudolph Bros. & Co.
6550 Oley Speaks Way
Canal Winchester, OH 43110
Phone: 614-833-0707
Fax: 800-600-9508
e-mail: rbcsupport@rudbro.com
www.rudbro.com