Safety Data Sheet

LOCTITE FREKOTE 770-NC known as LOCTITE FREKOTE 770NC

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Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE FREKOTE 770-NC known as LOCTITE FREKOTE 770NC

Other means of identification: LOCTITE FREKOTE 770-NC DR1GAL EN
Product code: IDH416032
Recommended use of the chemical and restrictions on use

Intended use: Release agent
Manufacturer/Importer/Distributor Representative Company

Henkel Adhesive Tech. Vietnam Co., Ltd,
No. 7, Road 9A Bien Hoa II Industrial Zone,
Bien Hoa City,
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Emergency Telephone for Chemical Accidents: FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call: +84 28 71006388

Section 2. Hazards identification

GHS Classification:

Hazard Class	Hazard Category
Flammable liquids	Category 2
Pyrophoric liquids	Category 1
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitizer	Category 1
Aspiration hazard	Category 1
Chronic hazards to the aquatic environment	Category 2

GHS label elements:

Hazard pictogram:



Signal word: Danger

Hazard statement:
H225 Highly flammable liquid and vapour.
H250 Catches fire spontaneously if exposed to air.
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.
H411 Toxic to aquatic life with long lasting effects.

Precaution:

Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P222 Do not allow contact with air.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves, eye protection, and face protection.

Response:
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P334 IF ON SKIN: Immerse in cool water or wrap in wet bandages.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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 advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391 Collect spillage.

Storage:
P403+P235 Store in a well-ventilated place. Keep cool.
P422 Store contents under inert gas.

Disposal:
P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Section 3. Composition / information on ingredients

Substance or Mixture:
Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
Hydrocarbons, C7-C9, isoalkanes 1174921-67-5	60- 100 %	Flammable liquids 2 H225 Skin corrosion/irritation 2 H315 Aspiration hazard 1 H304 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 2 H411
Reaction product of tris(n-methylamino)methylsilane (TMAS) and silanol terminated polydimethylsiloxane (PDMS) 1432471-92-5	1- 10 %	Flammable liquids 1 H224 Pyrophoric liquids 1 H250 Substances and mixtures, which on contact with water, emit flammable gases 1 H260 Acute toxicity 4; Inhalation H332 Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 1 H318 Skin Sensitization 1 H317 Target Organ Systemic Toxicant - Single exposure 3 H335
2,2,4-trimethylpentane 540-84-1	0.1- 1 %	Flammable liquids 2 H225 Skin corrosion/irritation 2 H315 Target Organ Systemic Toxicant - Single exposure 3 H336 Aspiration hazard 1 H304 Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 1 H410

Section 4. First aid measures

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.

Section 5. Fire fighting measures

Suitable extinguishing media:	Dry powder. Alcohol-resistant foam Carbon dioxide. Water spray or fog. Do not use high volume water jet.
Improper extinguishing media:	High pressure waterjet
Specific hazards arising from the chemical:	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.
Special protection equipment and precautions for firefighters:	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.
Hazardous combustion products:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Oxides of nitrogen. Oxides of carbon.
Additional fire fighting advice:	In case of fire, keep containers cool with water spray.

Section 6. Accidental release measures

Personal precautions:	Avoid skin and eye contact. Wear protective equipment. Ensure adequate ventilation. See advice in section 8
Environmental precautions:	Do not empty into drains / surface water / ground water. 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.
Clean-up methods:	Remove all sources of ignition. Ventilate area. Store in a closed metal container until ready for disposal. 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. Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Handling:

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.

Storage:

Store at room temperature.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

OCTANE (ALL ISOMERS) 540-84-1	**Value type**	Time Weighted Average (TWA):
	mg/m³	900
	Remarks	VN OEL
Octane, all isomers 540-84-1	**Value type**	Time Weighted Average (TWA):
	ppm	300
	Remarks	ACGIH
OCTANE (ALL ISOMERS) 540-84-1	**Value type**	Short-term exposure limit (STEL):
	mg/m³	1,400
	Remarks	VN OEL
HYDROCARBONS (1-10 C) 540-84-1	**Value type**	Short-term exposure limit (STEL):
	mg/m³	300
	Remarks	VN OEL

Respiratory protection:

Use a NIOSH approved supplied air respirator with an organic cartridge if the potential to exceed established exposure limits exists.

Eye protection:

Wear chemical goggles or a full face shield.
Safety goggles or safety glasses with side shields.
Protective eye equipment should conform to EN166.

Body protection:

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Engineering controls:

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

General protection and hygiene measures:

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Hygienic measures:

Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.
Take off contaminated clothing and wash before reuse.

Section 9. Physical and chemical properties

Appearance:	Clear Liquid
Odor:	Hydrocarbons
Odor threshold (CA):	No data available.
pH:	Not applicable, Product reacts with water.
Melting point / freezing point:	Not applicable, Product is a liquid
Specific gravity:	0.720
Boiling point:	> 112 °C (> 233.6 °F)
Flash point: (Supplier method)	7 °C (44.6 °F)
Evaporation rate:	No data available.
Flammability (solid, gas):	flammable
Lower explosive limit:	0.9 %(V)
Upper explosive limit:	No data available.
Vapor pressure: (; 20 °C (68 °F))	173 mbar
Vapor density:	3.9
Density:	0.72 g/cm3
Solubility:	No data available.
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	The substance or mixture is not classified as pyrophoric.
Decomposition temperature:	No data available.
Viscosity:	No data available.
VOC content:	No data available.

Section 10. Stability and reactivity

Reactivity/Incompatible materials:	Strong oxidizing agents.
Conditions to avoid:	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.
Hazardous decomposition products:	Hydrocarbons.

Section 11. Toxicological information

Inhalative toxicity: Acute toxicity estimate (ATE) : > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Symptoms of Overexposure**:** None known.

Acute oral toxicity:

Hydrocarbons, C7-C9, isoalkanes 1174921-67-5	Value type	LD50
	Value	> 7,100 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
2,2,4-trimethylpentane 540-84-1	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)

Acute inhalative toxicity:

Hydrocarbons, C7-C9, isoalkanes 1174921-67-5	Value type	LC50
	Value	> 9.4 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)
2,2,4-trimethylpentane 540-84-1	Value type	LC50
	Value	> 33.52 mg/l
	Exposure time	4 h
	Species	rat
	Method	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)

Acute dermal toxicity:

Hydrocarbons, C7-C9, isoalkanes 1174921-67-5	Value type	LD50
	Value	> 2,200 mg/kg
	Species	rabbit
	Method	not specified
2,2,4-trimethylpentane 540-84-1	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hydrocarbons, C7-C9, isoalkanes 1174921-67-5	Result	irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hydrocarbons, C7-C9, isoalkanes 1174921-67-5	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	EPA OPPTS 870.2400 (Acute Eye Irritation)

Respiratory or skin sensitization:

Hydrocarbons, C7-C9, isoalkanes 1174921-67-5	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hydrocarbons, C7-C9, isoalkanes 1174921-67-5	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Hydrocarbons, C7-C9, isoalkanes 1174921-67-5	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	without
	Method	equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Hydrocarbons, C7-C9, isoalkanes 1174921-67-5	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Hydrocarbons, C7-C9, isoalkanes 1174921-67-5	Result	negative
	Type of study / Route of administration	inhalation
	Metabolic activation / Exposure time	
	Species	rat
	Method	equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)

Repeated dose toxicity:

Hydrocarbons, C7-C9, isoalkanes 1174921-67-5	Result	
	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	12 weeks6 hours/day, 5 days/week
	Species	rat
	Method	equivalent or similar to OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.

Ecotoxicity: H411 Toxic to aquatic life with long lasting effects.

Toxicity:

Hydrocarbons, C7-C9, isoalkanes 1174921-67-5	Value type	LC50
	Value	18.4 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hydrocarbons, C7-C9, isoalkanes 1174921-67-5	Value type	EL50
	Value	2.4 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	other guideline:
Hydrocarbons, C7-C9, isoalkanes 1174921-67-5	Value type	EL50
	Value	10 - 30 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)

	Value type	NOELR
	Value	10 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,2,4-trimethylpentane 540-84-1	Value type	LC50
	Value	0.11 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Salmo gairdneri (new name: Oncorhynchus mykiss)
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
2,2,4-trimethylpentane 540-84-1	Value type	EC50
	Value	0.4 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	other guideline:
2,2,4-trimethylpentane 540-84-1	Value type	EC0
	Value	10,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	
	Species	not specified
	Method	not specified

Persistence and degradability:

Hydrocarbons, C7-C9, isoalkanes 1174921-67-5	Result	inherently biodegradable
	Route of application	aerobic
	Degradability	22.4 %
	Method	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
2,2,4-trimethylpentane 540-84-1	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	> 0 - 60 %
	Method	OECD 301 A - F

Bioaccumulative potential / Mobility in soil:

2,2,4-trimethylpentane 540-84-1	LogPow	4.5
	Temperature	
	Method	not specified

Section 13. Disposal considerations

Product

Method of disposal: Dispose of in accordance with local and national regulations.

Packaging

Disposal of uncleaned packages: Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Section 14. Transport information

Road transport ADR:

Class:	3
Packing group:	II
Classification code:	F1
Hazard ident. number:	33
UN no.:	1866
Label:	3
Technical name:	RESIN SOLUTION
Additional information:	Special provision 640D

Railroad transport RID:

Class:	3
Packing group:	II
Classification code:	F1
Hazard ident. number:	33
UN no.:	1866
Label:	3
Technical name:	RESIN SOLUTION
Additional information:	Special provision 640D

Inland water transport ADN:

Class:	3
Packing group:	II
Classification code:	F1
Hazard ident. number:	33
UN no.:	1866
Label:	3
Technical name:	RESIN SOLUTION
Additional information:	Special provision 640D

Marine transport IMDG:

Class:	3
Packing group:	II
UN no.:	1866
Label:	3
EmS:	F-E ,S-E
Seawater pollutant:	Marine pollutant
Proper shipping name:	RESIN SOLUTION (Isoalkane C7 - C10)

Air transport IATA:

Class:	3
Packing group:	II
Packaging instructions (passenger):	353
Packaging instructions (cargo):	364
UN no.:	1866
Label:	3
Proper shipping name:	Resin solution

Section 15. Regulatory information

Regulatory Information: This Safety Data Sheet has been generated based on

LAW ON CHEMICALS No. 69/2025/QH15, issued on June 14, 2025;

Decree No. 24/2026/NĐ-CP, issued on January 17, 2026, ON THE LISTS OF CHEMICALS GOVERNED BY THE LAW ON CHEMICALS;

Decree No. 25/2026/NĐ-CP, issued on January 17, 2026, DETAILED REGULATIONS AND MEASURES FOR ORGANIZING AND GUIDING THE IMPLEMENTATION OF CERTAIN ARTICLES OF THE LAW ON CHEMICALS CONCERNING THE DEVELOPMENT OF THE CHEMICAL INDUSTRY AND CHEMICAL SAFETY AND SECURITY;

Decree No. 26/2026/NĐ-CP, issued on January 17, 2026, DETAILED REGULATIONS AND GUIDELINES FOR IMPLEMENTING CERTAIN ARTICLES OF THE LAW ON CHEMICALS REGARDING THE MANAGEMENT OF CHEMICAL ACTIVITIES AND HAZARDOUS CHEMICALS IN PRODUCTS AND GOODS;

Circular No. 01/2026/TT-BCT, issued on January 17, 2026, DETAILED REGULATIONS AND GUIDELINES FOR IMPLEMENTING CERTAIN ARTICLES OF THE LAW ON CHEMICALS AND GOVERNMENT DECREE NO. 26/2026/ND-CP DETAILING AND GUIDING THE IMPLEMENTATION OF CERTAIN ARTICLES OF THE LAW ON CHEMICALS REGARDING THE MANAGEMENT OF CHEMICAL ACTIVITIES AND HAZARDOUS CHEMICALS IN PRODUCTS AND GOODS;

Circular No. 02/2026/TT-BCT, issued on January 17, 2026, REGULATIONS ON SOME IMPLEMENTATION MEASURES OF THE LAW ON CHEMICALS AND GOVERNMENT DECREE NO. 25/2026/ND-CP DETAILING AND PROVIDING MEASURES FOR ORGANIZING AND GUIDING THE IMPLEMENTATION OF SOME ARTICLES OF THE LAW ON CHEMICALS CONCERNING THE DEVELOPMENT OF THE CHEMICAL INDUSTRY AND CHEMICAL SAFETY AND SECURITY;

Decree No. 161/2024/ND-CP, issued on December 18, 2024, ON LIST OF DANGEROUS GOODS, TRANSPORT OF DANGEROUS GOODS AND PROCEDURES FOR ISSUANCE OF LICENSES OR CERTIFICATES OF COMPLETION OF TRAINING PROGRAMS FOR DRIVERS OR ESCORTS TRANSPORTING DANGEROUS GOODS BY ROAD;

Decree No. 34/2024/NĐ-CP, issued on March 31, 2024, ON LIST OF DANGEROUS GOODS, TRANSPORT OF DANGEROUS GOODS BY INLAND WATERCRAFT;

Decree No. 33/2024/NĐ-CP, issued on March 27, 2024, IMPLEMENTING THE CONVENTION ON THE PROHIBITION OF THE DEVELOPMENT, PRODUCTION, STOCKPILING AND USE OF CHEMICAL WEAPONS AND ON THEIR;

Decree No. 37/2026/NĐ-CP, issued on January 23, 2026, ELABORATING CERTAIN ARTICLES AND MEASURES FOR ORGANIZING AND GUIDING THE IMPLEMENTATION OF THE LAW ON PRODUCT AND GOODS QUALITY.

If other regulatory information applies that is not already provided or updated elsewhere in this Safety Data Sheet, then it is described in this subsection.

Global inventory status:

Regulatory list	Notification
IECSC	yes

Section 16. Other information

Disclaimer:

This Safety Data Sheet has been generated based on Law On Chemicals No. 69/2025/QH15; Decree No. 24/2026/NĐ-CP; Decree No. 25/2026/NĐ-CP; Decree No. 26/2026/NĐ-CP; Circular No. 01/2026/TT-BCT; Circular No. 02/2026/TT-BCT; Decree No. 161/2024/ND-CP; Decree No. 34/2024/NĐ-CP; Decree No. 33/2024/NĐ-CP, and Decree No. 37/2026/NĐ-CP.

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This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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