Safety Data Sheet

LOCTITE LB 8040 FREEZE & RELEASE known as LOCTITE FREEZE&RELEASE 310G AU

SDS No. : 360943
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Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE LB 8040 FREEZE & RELEASE known as LOCTITE FREEZE&RELEASE 310G AU

Other means of identification: LOCTITE LB 8040 AE310GAU
Product code: IDH1024403
Recommended use of the chemical and restrictions on use

Intended use: Lubricant

Identification of manufacturer, importer or distributor
Importer: PT Henkel Indonesien
Jl. Tegal Rotan Raya No. 78, Bintaro - Tangerang Selatan,
Banten 15413 - Indonesia.
Tel no. +62 21 2758 6900 Fax no. +62 21 7592 4625

E-mail address of person responsible for Safety Data Sheet: ap-ua-psra.sea@henkel.com

Emergency information: FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call CHEMTREC: +1 703-741-5970

Section 2. Hazards identification

GHS Classification:

Hazard Class	Hazard Category
Flammable aerosols	Category 1

GHS label elements:

Hazard pictogram:

Signal word: Danger

Hazard statement: H222 Extremely flammable aerosol.

Precaution:

Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.

Storage: P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Section 3. Composition / information on ingredients

Substance or Mixture:
Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
Butane 106-97-8	60- 100 %	Flammable gases 1 H220 Gases under pressure
Propane 74-98-6	10- 30 %	Flammable gases 1 H220 Gases under pressure
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene 64742-49-0	10- 30 %	Flammable liquids 3 H226 Specific target organ toxicity - single exposure 3 H336 Aspiration hazard 1 H304 Chronic hazards to the aquatic environment 3 H412
White mineral oil (petroleum), highly refined 8042-47-5	1- 10 %	

Section 4. First aid measures

Inhalation: If inhaled, immediately remove the affected person to fresh air.
If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear.
If symptoms develop and persist, get medical attention.

Eye contact: Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time.

Ingestion: If material is ingested, immediately contact a physician or poison control center.
Do not induce vomiting.

Section 5. Fire fighting measures

Suitable extinguishing media: Foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical:	Vapors are heavier than air and may travel along the ground or be moved by ventilation and subsequently ignited by heat, pilot lights or other ignition sources at locations distant from the material handling point.
Special protection equipment and precautions for firefighters:	Wear respiratory protection equipment according to ambient air conditions.
Hazardous combustion products:	Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Carbon monoxide.

Section 6. Accidental release measures

Personal precautions:	Keep away from sources of ignition. Wear an approved respirator, impervious gloves and chemical splash goggles.
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Handling:	Use only in well-ventilated areas. Wear suitable protective clothing, safety glasses and gloves. Keep away from heat, spark and flame.
Storage:	Store in a cool, dry, well-ventilated area. Keep away from sources of ignition. Do not store or use near heat, spark, open flame or other sources of ignition. Store below 120°F (50°C).

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

BUTANE, ALL ISOMERS 106-97-8	**Value type**	Short Term Exposure Limit (STEL):
	ppm	1,000
	Remarks	ACGIH
Butane 106-97-8	**Value type**	Time Weighted Average (TWA):
	ppm	800
	mg/m³	1,900
	Remarks	ID NAB
PROPANE 74-98-6	**Remarks**	ACGIH Included in the regulation but with no data values. See regulation for further details
Propane 74-98-6	**Value type**	Time Weighted Average (TWA):
	ppm	1,000
	Remarks	ID NAB
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene 64742-49-0	**Value type**	Time Weighted Average (TWA):
	ppm	400
	mg/m³	1,590
	Remarks	ID NAB
White mineral oil (petroleum), highly refined 8042-47-5	**Value type**	Short Term Exposure Limit (STEL):
	mg/m³	10
	Remarks	ID NAB
MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION 8042-47-5	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	ACGIH
White mineral oil (petroleum), highly refined 8042-47-5	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	ID NAB

Respiratory protection: Do not inhale aerosol
Use a NIOSH approved respirator if ventilation is inadequate.

Hand protection: Wear impervious (neoprene) gloves, impervious apron.
Avoid skin and eye contact.

Eye protection: Avoid contact with eyes.
Wear chemical goggles or a full face shield.

Body protection: Suitable protective clothing

Engineering controls: Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.
Use only in well ventilated areas.

General protection and hygiene measures: Eyewash fountains and emergency showers are required.

Section 9. Physical and chemical properties

Appearance:	aerosol, liquid
Odor:	Petroleum
Odor threshold (CA):	No data available.
pH:	No data available.
Melting point / freezing point:	No data available.
Specific gravity:	0.65 - 0.70
Boiling point:	No data available.
Flash point:	< 23 °C (< 73.4 °F)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Lower explosive limit:	No data available.
Upper explosive limit:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	No data available.
Solubility:	No data available.
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
VOC content:	No data available.

Section 10. Stability and reactivity

Reactivity/Incompatible materials:	Nitric acid. Incompatible with oxidising agents. Chlorine.
Possibility of hazardous reactions:	Will not occur.
Conditions to avoid:	Stable under normal conditions of storage and use.
Hazardous decomposition products:	carbon monoxide Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

Section 11. Toxicological information

Symptoms of Overexposure**:** None known.

Acute oral toxicity:

Naphtha (petroleum), hydrotreated light, < 0.1 % benzene 64742-49-0	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	not specified
White mineral oil (petroleum), highly refined 8042-47-5	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)

Acute inhalative toxicity:

Butane 106-97-8	Value type	LC50
	Value	274200 ppm
	Exposure time	4 h
	Species	rat
	Method	not specified
Propane 74-98-6	Value type	LC50
	Value	> 800000 ppm
	Exposure time	15 min
	Species	rat
	Method	not specified
White mineral oil (petroleum), highly refined 8042-47-5	Value type	LC50
	Value	> 5 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)

Acute dermal toxicity:

Naphtha (petroleum), hydrotreated light, < 0.1 % benzene 64742-49-0	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rabbit
	Method	not specified
White mineral oil (petroleum), highly refined 8042-47-5	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

White mineral oil (petroleum), highly refined 8042-47-5	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

White mineral oil (petroleum), highly refined 8042-47-5	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

White mineral oil (petroleum), highly refined 8042-47-5	Result	not sensitising
	Test type	Buehler test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Butane 106-97-8	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Butane 106-97-8	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Butane 106-97-8	Result	negative
	Type of study / Route of administration	
	Metabolic activation / Exposure time	
	Species	Drosophila melanogaster
	Method	not specified
Propane 74-98-6	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Propane 74-98-6	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Propane 74-98-6	Result	negative
	Type of study / Route of administration	
	Metabolic activation / Exposure time	
	Species	Drosophila melanogaster
	Method	not specified
White mineral oil (petroleum), highly refined 8042-47-5	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
White mineral oil (petroleum), highly refined 8042-47-5	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)
White mineral oil (petroleum), highly refined 8042-47-5	Result	negative
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Repeated dose toxicity:

Butane 106-97-8	Result	
	Route of application	inhalation: gas
	Exposure time / Frequency of treatment	28 d
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Propane 74-98-6	Result	
	Route of application	inhalation: gas
	Exposure time / Frequency of treatment	28 d
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
White mineral oil (petroleum), highly refined 8042-47-5	Result	NOAEL=>= 1,600 mg/kg
	Route of application	oral: feed
	Exposure time / Frequency of treatment	90 ddaily
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Section 12. Ecological information

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

Toxicity:

Butane 106-97-8	Value type	LC50
	Value	27.98 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	
	Method	not specified
Butane 106-97-8	Value type	EC50
	Value	14.22 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	
	Method	not specified
Butane 106-97-8	Value type	EC50
	Value	7.71 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	
	Method	not specified
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene 64742-49-0	Value type	LC50
	Value	> 1 - 10 mg/l
	Acute Toxicity Study	Fish
	Exposure time	
	Species	
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
	Value type	LC50
	Value	> 10 - 100 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene 64742-49-0	Value type	EC50
	Value	3 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
	Value type	EC50
	Value	> 10 - 100 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Naphtha (petroleum), hydrotreated light, < 0.1 % benzene 64742-49-0	Value type	EC50
	Value	> 1 - 10 mg/l
	Acute Toxicity Study	Algae
	Exposure time	
	Species	
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC50
	Value	> 100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
White mineral oil (petroleum), highly refined 8042-47-5	Value type	LL50
	Value	> 100 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
White mineral oil (petroleum), highly refined	Value type	EL50
	Value	> 100 mg/l

8042-47-5	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
White mineral oil (petroleum), highly refined 8042-47-5	Value type	NOELR
	Value	100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
White mineral oil (petroleum), highly refined 8042-47-5	Value type	IC50
	Value	> 100 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	93 d
	Species	other:
	Method	other guideline:

Persistence and degradability:

Naphtha (petroleum), hydrotreated light, < 0.1 % benzene 64742-49-0	Result	readily biodegradable
	Route of application	aerobic
	Degradability	89 %
	Method	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
White mineral oil (petroleum), highly refined 8042-47-5	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	31.3 %
	Method	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

Bioaccumulative potential / Mobility in soil:

Naphtha (petroleum), hydrotreated light, < 0.1 % benzene 64742-49-0	LogPow	4 - 5.7
	Temperature	
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
White mineral oil (petroleum), highly refined 8042-47-5	LogPow	> 4
	Temperature	
	Method	EU Method A.8 (Partition Coefficient)

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: 2
Packing group:
Classification code: 5F
Hazard ident. number:
UN no.: 1950
Label: 2.1
Technical name: AEROSOLS

Railroad transport RID:

Class:	2
Packing group:	
Classification code:	5F
Hazard ident. number:	23
UN no.:	1950
Label:	2.1
Technical name:	AEROSOLS

Inland water transport ADN:

Class:	2
Packing group:	
Classification code:	5F
Hazard ident. number:	
UN no.:	1950
Label:	2.1
Technical name:	AEROSOLS

Marine transport IMDG:

Class:	2.1
Packing group:	
UN no.:	1950
Label:	2.1
EmS:	F-D ,S-U
Seawater pollutant:	-
Proper shipping name:	AEROSOLS

Air transport IATA:

Class:	2.1
Packing group:	
Packaging instructions (passenger):	203
Packaging instructions (cargo):	203
UN no.:	1950
Label:	2.1
Proper shipping name:	Aerosols, flammable

Section 15. Regulatory information

Regulatory Information: Decree of Minister of Industry No. 23/M-IND/PER/4/2013 concerning the Revision of Decree of Minister of Industry No.87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals
Decree of Minister of Industry No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals

Global inventory status:

Regulatory list	Notification
EINECS	yes
TSCA	yes
AICS	yes
DSL	yes
ENCS (JP)	yes
KECI (KR)	yes
PICCS (PH)	yes
IECSC	yes
ISHL (JP)	yes
NZIOC	yes

Section 16. Other information

Disclaimer:

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.