



Safety Data Sheet

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LOCTITE Sticker Remover Premium

SDS No. : 503351

V001.1

Henkel Japan Ltd.

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

Product code: 1830181
Product name: LOCTITE Sticker Remover Premium
Recommended use : adhesive remover

Company name:
Henkel Japan Ltd.
Sphere Tower Tennoz 14F 2-2-8
Higashi-Shinagawa, Shinagawa-ku, Tokyo
140-0002
Phone: +81 (45) 758-1800

2. Hazards identification

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>
Aerosol	Category 1
Acute hazards to the aquatic environment	Category 2

GHS label elements:

Hazard pictogram:



Signal word:

Danger

Hazard statement:

H222 Extremely flammable aerosol.
H229 Pressurized container: May burst if heated.
H401 Toxic to aquatic life.

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.
P273 Avoid release to the environment.

Storage:

P410+P412a Protect from sunlight and do not expose to temperatures exceeding 40 °C/104 °F.

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.

The hazard information in product label may be differing with SDS information.

3. Composition / information on ingredients

Single substance/ Mixture: Mixture
Chemical Characterization: Cleaner

Hazardous Components and Concentration

Ingredients	contents
Undecane	30 - 40 %
butane	10 - 20 %
Isobutane	10 - 20 %

4. First aid measures

Case of skin contact: Immediately wash skin thoroughly with soap and water.
If symptoms develop and persist, get medical attention.

Case of eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes,
and seek immediate medical attention.

Case of ingestion: Get immediate medical attention.
Do not induce vomiting.

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

5. Fire fighting measures

Suitable extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Decomposition products in case of fire: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low
molecular weight hydrocarbons.

Protective equipment: Wear full protective clothing.
Wear self-contained breathing apparatus.

6. Accidental release measures

- Personal precautions:** Avoid skin and eye contact.
See advice in section 8
- Environmental precautions:** Do not empty into drains / surface water / ground water.
- Measures for removal:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Dispose of contaminated material as waste according to Section 13.

7. Handling and storage

- Handling:**
- Precautions for safe handling:** Ensure that workrooms are adequately ventilated.
Avoid open flames and sources of ignition.
- Storage:**
- Conditions for safe storage:** Do not expose to direct heat.
Store in sealed original container.

8. Exposure controls / personal protection

Component exposure limits:
Japan OELs JSOH

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Isobutane [Butane (all isomers)]	500	1,200	Time Weighted Average (TWA):		JPJSOH OEL

Component exposure limits:
REFERENCES

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Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Isobutane [Butane, all isomers]	1,000		Short Term Exposure Limit (STEL):	EX: Explosion hazard	ACGIH

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

Personal Protection Equipment:

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Eye protection: Tightly fitting safety goggles

Body 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:	aerosol	Color:	Clear
pH:	Not applicable or not available	Odor:	Mineral oil
Boiling point:	Not applicable or not available	Melting point:	Not applicable or not available
Vapor density:	Not applicable or not available	Density:	0.72 - 0.76 g/cm ³
Flash point:	72 °C (161.6 °F)	Vapor pressure:	Not applicable or not available
Lower explosive limit:	Not applicable or not available	Upper explosive limit:	Not applicable or not available
Solubility in water:	Not applicable or not available	Viscosity:	Not applicable or not available
Auto-ignition temperature:	Not applicable or not available	Flammability:	Not applicable or not available
Octanol / water distribution coefficient:	Not applicable or not available	Decomposition temperature:	Not applicable or not available
Particle characteristics:	Not applicable or not available		

10. Stability and reactivity

Stability:

Reactivity: Reaction with strong oxidants.

Chemical stability: Stable under normal conditions of temperature and pressure.

Condition to avoid: Heat, flames, sparks and other sources of ignition.

Hazardous decomposition products: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

11. Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value type	Value	Species	Method
Undecane	LD50	> 2,000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value type	Value	Species	Method
Undecane	LD50	> 2,000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value type	Value	Test atmosphere	Exposure time	Species	Method
Undecane	LC 50	> 9,300 mg/m ³	Vapor	4 h	Rat	
Undecane	LC50		vapour	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Undecane	LC 50	4467 ppm	Vapor	8 h	Rat	
Undecane	LC 50	> 41 ppm	Vapor	8 h	Rat	
Undecane	LC 50	> 5,266 mg/m ³	Aerosol	4 h	Rat	
Undecane	LC 50	> 5,000 mg/m ³	Vapor	8 h	Rat	
Undecane	LC 50	> 442 ppm	Vapor	8 h	Rat	
Undecane	NOAEL	2414 ppm	Vapor	8 h	Rat	
Undecane	LC 50	>= 11,160 mg/m ³			Monkey	
Undecane	LC 50	> 5,600 mg/m ³	Aerosol	4 h	Rat	
Undecane	LC 50	> 5,991 mg/m ³	Aerosol	4 h	Rat	
Undecane	LC 50	> 4,951 mg/m ³	Vapor	4 h	Rat	
Undecane	LC 50	> 142 ppm	Vapor	8 h	Rat	
Undecane	LC 50	> 1369 ppm	Vapor	8 h	Rat	
Undecane	LC 50	>= 6,100 mg/m ³	Vapor	4 h	Rat	
butane	LC 50	1,442,738 mg/m ³	Inhalation	10 min	Rat	
butane	LC50	274200 ppm	gas	4 h	rat	not specified
butane	LC 50	> 800000 ppm	Inhalation	10 min	Rat	
butane	EC 50	280000 ppm	Inhalation	10 min	Rat	
butane	LC 50	1,443 mg/l	Inhalation	10 min	Rat	
Isobutane	LC 50	> 800000 ppm	Inhalation	10 min	Rat	
Isobutane	LC50	260200 ppm	gas	4 h	mouse	not specified
Isobutane	EC 50	280000 ppm	Inhalation	10 min	Rat	
Isobutane	LC 50	1,443 mg/l	Inhalation	10 min	Rat	
Isobutane	LC 50	1,442,738 mg/m ³	Inhalation	10 min	Rat	

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Result	Exposure time	Species	Method
Undecane	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

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Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Result	Exposure time	Species	Method
Undecane	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result	Test type	Species	Method
Undecane	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Undecane	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Undecane	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Undecane	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Undecane	negative	sister chromatid exchange assay in mammalian cells	with and without		OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells)
butane	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
butane	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Isobutane	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Isobutane	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Undecane	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Undecane	negative	inhalation: vapour		rat	OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)
butane	negative	inhalation: gas		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Isobutane	negative	oral: feed		Drosophila melanogaster	not specified
Isobutane	negative	inhalation: gas		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Carcinogenicity

No data available.

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Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result / Value	Test type	Route of application	Species	Method
Undecane	NOAEL P >= 1,500 mg/kg NOAEL F1 750 mg/kg	one-generation study	oral: gavage	rat	OECD Guideline 415 (One-Generation Reproduction Toxicity Study)
butane	NOAEL P 21.4 mg/l NOAEL F1 21.4 mg/l	screening	inhalation: gas	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Isobutane	NOAEL P 21.4 mg/l NOAEL F1 21.4 mg/l	screening	inhalation: gas	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Undecane	NOAEL >= 5,000 mg/kg	oral: gavage	13 w 7 d/w	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
butane		inhalation: gas	28 d 6 h/d	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Isobutane	NOAEL 9000 ppm	inhalation: gas	28 d 6 h/d, 7 d/w	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Aspiration hazard:

No data available.

12. Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value type	Value	Exposure time	Species	Method
Undecane	LC50	> 500 mg/l	96 h	Cyprinodon variegatus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Butane, n- (< 0.1 % butadiene)	LC50	27.98 mg/l	96 h		not specified

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value type	Value	Exposure time	Species	Method
Undecane	EC50	18 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Butane, n- (< 0.1 % butadiene)	EC50	14.22 mg/l	48 h		not specified

Chronic toxicity (aquatic invertebrates):

No data available.

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value type	Value	Exposure time	Species	Method
Undecane	NOEC	0.05 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Undecane	EC50	> 100 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Butane, n- (< 0.1 % butadiene)	EC50	7.71 mg/l	96 h		not specified

Toxicity (microorganisms):

No data available.

12.2. Persistence and degradability

Hazardous substances	Result	Test type	Degradability	Exposure time	Method
Undecane	readily biodegradable	aerobic	71 %	28 day	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Butane, n- (< 0.1 % butadiene)	readily biodegradable	aerobic	> 60 %	28 d	OECD 301 A - F
Isobutane	readily biodegradable	aerobic	71.43 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

12.3. Bioaccumulative potential

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No data available.

12.4. Mobility in soil

Hazardous substances	LogPow	Temperature	Method
Undecane	5.74		not specified
Butane, n- (< 0.1 % butadiene)	2.31	20 °C	other (measured)
Isobutane	2.88	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or vPvB.

12.6. Other adverse effects

No data available.

13. Disposal considerations**Recommended method of disposal:**

Dispose of in accordance with local and national regulations.

Waste disposal of packaging not cleansed:

Disposal must be made according to official regulations.

14. Transport information**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:	
Packing instructions (passenger)	203
Packing instructions (cargo)	203
UN no.:	1950
Label:	2.1
Proper shipping name:	Aerosols, flammable

Local transport information

Land transportation: If it falls under the Fire Service Act, the Industrial Safety and Health Act, the Poisonous and Deleterious Substances Act, etc., follow the prescribed transportation method.

Maritime transportation: Follow the transportation law stipulated in the Ship Safety Act.

Air transportation: Follow the transportation method stipulated in the Civil Aeronautics Act.

15. Regulatory information

Labor Safety and Health Law:

MSDS Required Substances butane
Isobutane

Label Required Substances butane
Isobutane

Fire services law: Class 4, Class 4 Group 3 oils (Non-water soluble)

Poisonous and Deleterious substances control Law: Does not apply.

Law concerning Pollutant Release and Transfer Register / PRTR:(content value is typical value) Does not apply.

D. Others:

High Pressure Gas butane
propane
Isobutane

16. Other information

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