



Safety Data Sheet

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LOCTITE SF 7900 AE 400ML

SDS No. : 326229

V001.3

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SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name:	LOCTITE SF 7900 AE 400ML
Intended use:	Coating
Supplier:	Henkel New Zealand Ltd 2 Allens Rd Auckland, 2013 New Zealand Phone: +64 (9) 272-6710
Emergency information:	24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

Classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Target organ</u>
Flammable aerosols	Category 1	
Serious eye irritation	Category 2A	
Target Organ Systemic Toxicant - Single exposure	Category 3	Central nervous system
Acute hazards to the aquatic environment	Category 3	

Hazard pictogram:



Signal word:

Danger

Hazard statement(s): H222 Extremely flammable aerosol.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H402 Harmful to aquatic life.
Repeated exposure may cause skin dryness or cracking.

Precautionary Statement(s):

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.
P261 Avoid breathing mist/vapours.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response: 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.
P337+P313 If eye irritation persists: Get medical advice/attention.

Storage: P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description: Mixture
Type of preparation: Lubricant

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
acetone	67-64-1	20- < 30 %
butane	106-97-8	20- < 30 %
Butanone	78-93-3	10- < 20 %
ethyl formate	109-94-4	1- < 10 %
1,3-Dioxolane	646-06-0	1- < 10 %

SECTION 4 FIRST AID MEASURES

Ingestion: Do not induce vomiting.
Have victim rinse mouth thoroughly with water.
Seek medical advice.

Skin: Remove contaminated clothing and footwear.
Wash with soap and water.
Seek medical advice.
Wash clothing before reuse.

Eyes:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice.
Inhalation:	Move to fresh air in case of accidental inhalation of vapours. Seek medical advice.
First Aid facilities:	Eye wash Normal washroom facilities
Medical attention and special treatment:	Treat symptomatically and supportively.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Foam Carbon dioxide. Dry chemical.
Decomposition products in case of fire:	Thermal decomposition can lead to release of irritating gases and vapors. carbon monoxide Carbon dioxide.
Particular danger in case of fire:	WARNING FLAMMABLE! Contents under pressure. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.
Special protective equipment for fire-fighters:	Use water spray to keep fire exposed containers cool and disperse vapors. Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Additional fire fighting advice:	In case of fire, keep containers cool with water spray. Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with skin and eyes. Avoid inhalation of vapor, fumes, dust and/or mist from the spilled material.
Environmental precautions:	Do not allow to enter in surface / ground water.
Clean-up methods:	Remove the absorbed material, and place in an appropriate chemical waste container for disposal. Ventilate area.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid breathing vapors or mists of this product. Avoid contact with eyes, skin and clothing. Keep away from heat, spark and flame. Vapors will accumulate readily and may ignite explosively. Ensure adequate ventilation.
Conditions for safe storage:	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F).

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Ceiling	STEL (ppm)	STEL (mg/m3)
ACETONE 67-64-1		500	1,185	-	-	-
ACETONE		-	-	-	1,000	2,375
Butane 106-97-8		800	1,900	-	-	-
METHYL ETHYL KETONE 78-93-3		150	445	-	-	-
METHYL ETHYL KETONE		-	-	-	300	890
ETHYL FORMATE 109-94-4		100	303	-	-	-

Biological Exposure Indices:

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Acetone 67-64-1 [ACETONE]	acetone	Urine	Sampling time: End of shift.	50 mg/l	NZ BEI		
Butanone 78-93-3 [METHYL ETHYL KETONE (MEK)]	methyl ethyl ketone	Urine	Sampling time: End of shift.	2 mg/l	NZ BEI		

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Acetone 67-64-1	acetone	Urine	Sampling time: End of shift.	80 mg/l	DE BGW		
Butanone 78-93-3 [2-Butanone; Methyl ethyl ketone]	2-butanone	Urine	Sampling time: End of shift.	150 mg/l	DE BGW		

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.

Eye protection:

Safety goggles or safety glasses with side shields.

Skin protection:

Chemical resistant, impermeable gloves.
Suitable protective gloves.
Wear suitable protective clothing.
Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.
Butyl rubber gloves.

Respiratory protection:

If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

White
Aerosol

Odor:

Solvent

pH:

6 - 8

Melting point / freezing point:

Not applicable, Product is a liquid-95 °C (-139 °F)

Specific gravity:	1.2
Boiling point:	< -42 °C (< -43.6 °F)56 °C (132.8 °F)
Flash point:	< -104 °C (< -155.2 °F) Solvent Mixtures
Evaporation rate:	14.4
Flammability (solid, gas):	Extremely flammableHighly flammable.
Lower explosive limit:	1.5 %(V)2.2 %(V)
Upper explosive limit:	8.5 %(V)13 %(V)
Vapor pressure:	231 mm hg (; 25 °C (77 °F); 20 °C (68 °F); 50 °C (122 °F)) > 4000 hPa > 8000 hPa
Vapor density:	> 1 2.0
Density:	0.8 g/cm30.8 g/cm3
Solubility in water:	Soluble
Auto ignition:	465 °C
Decomposition temperature:	

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of temperature and pressure.
Conditions to avoid:	Keep away from heat, spark and flame. Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F).
Incompatible materials:	Oxidizing agents.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapors. carbon monoxide carbon dioxide
Hazardous polymerization:	Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects:**Ingestion:**

Not expected under normal conditions of use.

Skin:

Repeated exposure may cause skin dryness or cracking.

Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Eyes:

Causes serious eye irritation.

Symptoms may include severe irritation, pain, tearing, blurred vision.

Inhalation:

May cause irritation to nose and throat.

Vapours may cause drowsiness and dizziness.

Central nervous system depression, including dizziness, drowsiness, fatigue, nausea, headache, unconsciousness.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
acetone 67-64-1	LD50	5,800 mg/kg	oral	4 h	rat	not specified
	LC50	76 mg/l	inhalation		rat	not specified
	LD50	> 15,688 mg/kg	dermal		rabbit	Draize Test
butane 106-97-8	LC50	274200 ppm	inhalation	4 h	rat	not specified
Butanone 78-93-3	LD50	2,737 mg/kg	oral	4 h	rat	not specified
	LC50	> 20 mg/l	inhalation		rat	not specified
	LD50	> 6,400 mg/kg	dermal		rabbit	not specified
ethyl formate 109-94-4	LD50	1,850 mg/kg	oral		rat	not specified
1,3-Dioxolane 646-06-0	LD50	> 2,000 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
	LD50	> 2,000 mg/kg	dermal		rabbit	not specified

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
acetone 67-64-1	not irritating		guinea pig	not specified
Butanone 78-93-3	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
acetone 67-64-1	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Butanone 78-93-3	irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
acetone 67-64-1	not sensitising	Guinea pig maximisation test	guinea pig	not specified
Butanone 78-93-3	not sensitising	Buehler test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
acetone 67-64-1	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without with and without without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
acetone 67-64-1	negative	oral: drinking water		mouse	not specified
butane 106-97-8	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
butane 106-97-8	negative	inhalation: gas		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Butanone 78-93-3	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without not applicable with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Butanone 78-93-3	negative	intraperitoneal		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
acetone 67-64-1	NOAEL=900 mg/kg	oral: drinking water	13 wdaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
butane 106-97-8		inhalation: gas	28 d6 h/d	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Butanone 78-93-3	NOAEL=2500 ppm	inhalation	90 days6 hours/day, 5 days/week	rat	not specified
Butanone 78-93-3	LOAEL=5000 ppm	inhalation	90 days6 hours/day, 5 days/week	rat	not specified

SECTION 12. ECOLOGICAL INFORMATION

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

Ecotoxicity: Harmful to aquatic life.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
acetone 67-64-1	LC50	8,120 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
acetone 67-64-1	EC50	8,800 mg/l	Daphnia	48 h	Daphnia pulex	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
acetone 67-64-1	NOEC	530 mg/l	Algae	8 d	Microcystis aeruginosa	DIN 38412-09
acetone 67-64-1	EC10	1,000 mg/l	Bacteria	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test) not specified
butane 106-97-8	LC50	27.98 mg/l	Fish	96 h		not specified
butane 106-97-8	EC50	14.22 mg/l	Daphnia	48 h		not specified
butane 106-97-8	EC50	7.71 mg/l	Algae	96 h		not specified
Butanone 78-93-3	LC50	3,220 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Butanone 78-93-3	EC50	5,091 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Butanone 78-93-3	EC50	2,029 mg/l	Algae	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Butanone 78-93-3	EC10	1,289 mg/l	Algae	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Butanone 78-93-3	EC50	1,150 mg/l	Bacteria	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test)
ethyl formate 109-94-4	EC50	120 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1,3-Dioxolane 646-06-0	LC50	> 95.4 mg/l	Fish	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
1,3-Dioxolane 646-06-0	EC50	> 772 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1,3-Dioxolane 646-06-0	NOEC	877 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,3-Dioxolane 646-06-0	ErC50	> 877 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
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acetone 67-64-1	readily biodegradable	aerobic	81 - 92 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
butane 106-97-8	readily biodegradable	aerobic	> 60 %	OECD 301 A - F
Butanone 78-93-3	readily biodegradable	aerobic	98 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
ethyl formate 109-94-4	readily biodegradable		77.48 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
1,3-Dioxolane 646-06-0		aerobic	20 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
acetone 67-64-1	-0.24					OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
butane 106-97-8	2.31				20 °C	other (measured)
Butanone 78-93-3	0.3				40 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
ethyl formate 109-94-4	0.23					not specified
1,3-Dioxolane 646-06-0	-0.35					not specified

SECTION 13. DISPOSAL CONSIDERATIONS

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

Disposal for uncleaned package: Completely empty pressurized gas containers (including propellant gas). Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

Dangerous Goods information:

Land Transport:

Classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

Land Transport:

UN no.: 1950
Proper shipping name: AEROSOLS
Class or division: 2.1

Marine transport IMDG:

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

Air transport IATA:

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

SECTION 15. REGULATORY INFORMATION

New Zealand regulatory information:

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

HSNO Approval Number: HSR002515

Approved Handler: Refer to the certified handler requirements in the Health and Safety at Work (Hazardous Substances) Regulations 2017

Site and Storage: Refer to the site and storage requirements for this Group Standard.
Refer to the HSNO controls for approved hazardous substances.

NZIoC: Compliant for NZIOC

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms: STEL - Short term exposure limit
TWA - Time weighted average
HSNO - Hazardous Substances and New Organisms
GHS: Globally Harmonized System
CAS: Chemical Abstracts Service
LD 50: Lethal Dose 50%
LC 50: Lethal Concentration 50%
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

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Date of previous issue: 20.09.2022

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