

**Safety Data Sheet**

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Loctite 7649

SDS No. : 153557

V001.1

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**SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

<b>Product name:</b>	Loctite 7649
<b>Intended use:</b>	Accelerator
<b>Supplier:</b>	Henkel New Zealand Ltd 2 Allens Rd Auckland, 2013 New Zealand Phone: +64 (9) 272-6710
<b>Emergency information:</b>	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).

**GHS Classification:**

<b><u>Hazard Class</u></b>	<b><u>Hazard Category</u></b>	<b><u>Target organ</u></b>
Flammable liquids	Category 2	
Serious eye irritation	Category 2A	
Target Organ Systemic Toxicant - Single exposure	Category 3	Central nervous system

**Hazard pictogram:****Signal word:**

Danger

<b>Hazard statement(s):</b>	H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.
<b>Precautionary Statement(s):</b>	
<b>Prevention:</b>	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves, eye protection, and face protection.
<b>Response:</b>	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. 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. P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
<b>Storage:</b>	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.
<b>Disposal:</b>	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:** Solvent based activator.

**Identity of ingredients:**

Chemical ingredients	CAS-No.	Proportion
acetone	67-64-1	60- <= 100 %
2-ethylhexanoic acid, copper salt	22221-10-9	< 1 %
2-ethylhexanoic acid	149-57-5	< 3 %
non hazardous ingredients~		< 3 %

**SECTION 4 FIRST AID MEASURES**

**Ingestion:** Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting. Seek medical advice.

**Skin:** Rinse with running water and soap. Seek medical advice.

**Eyes:** Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

**Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.

**First Aid facilities:** Eye wash  
Normal washroom facilities  
**First Aid facilities:** Eye wash  
**Medical attention and special treatment:** Treat symptomatically.

### SECTION 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Carbon dioxide, foam, powder  
**Combustion behaviour:** Flammable Liquid.  
**Decomposition products in case of fire:** Oxides of carbon, oxides of nitrogen, irritating organic vapors.  
**Particular danger in case of fire:** Vapours may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back.  
**Special protective equipment for fire-fighters:** 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.  
**Hazchem code:** •2YE

### SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Avoid skin and eye contact.  
Ensure adequate ventilation.  
**Environmental precautions:** Do not let product enter drains.  
**Clean-up methods:** For small spills wipe up with paper towel and place in container for disposal.  
For large spills absorb onto inert absorbent material and place in sealed container for disposal.

### SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling:** Use only in well-ventilated areas.  
Vapours should be extracted to avoid inhalation.  
Keep away from sources of ignition - no smoking.  
**Conditions for safe storage:** Store in a cool, well-ventilated place.  
Keep away from heat and direct sunlight.

## 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

### 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		

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		

### Engineering controls:

Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

### Eye protection:

Wear protective glasses.

### Skin protection:

Wear suitable protective clothing.  
Butyl rubber gloves  
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.

### Respiratory protection:

Use only in well-ventilated areas.  
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

<b>Appearance:</b>	green liquid
<b>Odor:</b>	Acetone
<b>Specific gravity:</b>	0.7936
<b>Boiling point:</b>	56 °C (132.8 °F)
<b>Flash point:</b>	-19 °C (-2.2 °F) Estimated
Ignition temperature	465 °C (869 °F)
<b>Evaporation rate:</b>	1.9 (Ether = 1)
<b>Vapor pressure:</b>	172 mm hg (; 20 °C (68 °F))
<b>Vapor density:</b>	2.0
<b>Density:</b>	0.7936 g/cm3
<b>Solubility in water:</b>	Miscible
<b>Auto ignition:</b>	485 °C
<b>Decomposition temperature:</b>	
<b>VOC content:</b>	99 % (2010/75/EC)

## SECTION 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of temperature and pressure.
<b>Conditions to avoid:</b>	Heat, flames, sparks and other sources of ignition.
<b>Incompatible materials:</b>	Strong oxidizing agents. Acids.
<b>Hazardous decomposition products:</b>	carbon oxides.  nitrogen oxides Irritating organic vapours.

## SECTION 11 TOXICOLOGICAL INFORMATION

<b>Health Effects:</b>	
<b>Ingestion:</b>	Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Skin:</b>	May cause mild skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Repeated exposure may cause skin dryness or cracking.
<b>Eyes:</b>	Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
<b>Inhalation:</b>	Vapours may cause drowsiness and dizziness. Vapors may be irritating and cause chest discomfort and symptoms of bronchitis.

### Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
acetone 67-64-1	LD50 LC50 LD50	5,800 mg/kg 76 mg/l > 15,688 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	not specified not specified Draize Test
2-ethylhexanoic acid, copper salt 22221-10-9	LD50 LD50	481 mg/kg > 2,000 mg/kg	oral  dermal		rat rat	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
2-ethylhexanoic acid 149-57-5	LD50 LD50	2,043 mg/kg > 2,000 mg/kg	oral  dermal		rat rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)

### Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
acetone 67-64-1	not irritating		guinea pig	not specified
2-ethylhexanoic acid, copper salt 22221-10-9	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-ethylhexanoic acid 149-57-5	not irritating		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)
2-ethylhexanoic acid, copper salt 22221-10-9	corrosive	4 h	Bovine, cornea, in vitro test	OECD Guideline 437 (BCOP)
2-ethylhexanoic acid 149-57-5	not irritating		rabbit	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 maximisa- tion test	guinea pig	not specified

**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
2-ethylhexanoic acid 149-57-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames 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)

**SECTION 12. ECOLOGICAL INFORMATION**

**General ecological information:**

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

**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)
2-ethylhexanoic acid, copper salt 22221-10-9	LC50	0.06368 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-ethylhexanoic acid, copper salt 22221-10-9	NOEC	0.06316 mg/l	Fish	30 d	Oncorhynchus mykiss	other guideline:
2-ethylhexanoic acid 149-57-5	LC50	> 100 mg/l	Fish	96 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-ethylhexanoic acid 149-57-5	EC50	913 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-ethylhexanoic acid 149-57-5	EC50	500 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-ethylhexanoic acid 149-57-5	EC10	231.2 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-ethylhexanoic acid 149-57-5	EC10	72 mg/l	Bacteria	17 h		DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test)

**Persistence and degradability:**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
acetone 67-64-1	readily biodegradable	aerobic	81 - 92 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
2-ethylhexanoic acid 149-57-5	inherently biodegradable	aerobic	> 70 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
2-ethylhexanoic acid 149-57-5	readily biodegradable	aerobic	99 %	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)

**Bioaccumulative potential / Mobility in soil:**

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
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acetone 67-64-1	-0.24					OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
2-ethylhexanoic acid, copper salt 22221-10-9	4.37					QSAR (Quantitative Structure Activity Relationship)
2-ethylhexanoic acid 149-57-5	2.7				25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Waste disposal of product:** Dispose of according to regulations.

**Disposal for uncleaned package:** Disposal must be made according to official regulations.

**SECTION 14. TRANSPORT INFORMATION**

**Land Transport:**

UN no.: 1090  
 Proper shipping name: ACETONE (solution)  
 Class or division: 3  
 Packing group: II  
 Hazchem code: •2YE

**Marine transport IMDG:**

UN no.: 1090  
 Proper shipping name: ACETONE (solution)  
 Class or division: 3  
 Packing group: II  
 EmS: F-E ,S-D  
 Seawater pollutant: -

**Air transport IATA:**

UN no.: 1090  
 Proper shipping name: Acetone (solution)  
 Class or division: 3  
 Packing group: II  
 Packing instructions (passenger): 353  
 Packing instructions (cargo): 364

**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:** Group standard HSR002662

**NZIoC:** Compliant for NZIOC



**SECTION 16. OTHER INFORMATION**

**Abbreviations/acronyms:** HSNO - Hazardous Substances and New Organisms  
TWA - Time weighted average  
STEL - Short term exposure limit  
IMDG: International Maritime Dangerous Goods code  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

**Reason for issue:** Reviewed SDS. Reissued with new date. involved chapters: 1-16

**Date of previous issue:** 18.06.2014

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