Safety Data Sheet

Loctite 7649 10 ML EN/CH

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

Product name:
Loctite 7649 10 ML EN/CH

Other means of identification:
Loctite 7649 10 ML EN/CH

Product code:
IDH1906180

Recommended use of the chemical and restrictions on use

Intended use:
activator

Manufacturer/Importer/Distributor Representative Company

Henkel Thailand Ltd. The Offices at Centralworld,
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E-mail address of person responsible for Safety Data Sheet:
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Emergency Telephone for Chemical Accidents:
FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call: +662 209 8008

Section 2. Hazards identification

GHS Classification:

Hazard Class	Hazard Category	Target organ
Flammable liquids	Category 2	
Serious eye damage/eye irritation	Category 2	
Toxic to reproduction	Category 1B	
Specific target organ toxicity - single exposure	Category 3	Central nervous system
Chronic hazards to the aquatic environment	Category 3	

GHS label elements:

Hazard pictogram:



Signal word:
Danger

Hazard statement:
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H360 May damage fertility or the unborn child.
H412 Harmful to aquatic life with long lasting effects.

Precaution:

Prevention:
P201 Obtain special instructions before use.
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.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response:
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.
P308+P313 IF exposed or concerned: Get medical advice/attention.
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.
Storage:
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
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
acetone 67-64-1	60- 100 %	Flammable liquids 2 H225 Serious eye damage/eye irritation 2A H319 Specific target organ toxicity - single exposure 3 H336
2-ethylhexanoic acid, compound with tributylamine (1:1) 58823-74-8	0.1- 1 %	Toxic to reproduction 1B H360 Acute hazards to the aquatic environment 2 H401
2-ethylhexanoic acid, copper salt 22221-10-9	0.1- 1 %	Acute toxicity 4; Oral H302 Serious eye damage/eye irritation 1 H318 Toxic to reproduction 1B H360 Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 1 H410
2-ethylhexanoic acid 149-57-5	0.1- 1 %	Acute toxicity 5; Oral H303 Toxic to reproduction 1B H360

Section 4. First aid measures

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

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

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

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

Section 5. Fire fighting measures

Suitable extinguishing media:

Carbon dioxide, foam, powder

Specific hazards arising from the chemical:
In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released.

Special protection equipment and precautions for firefighters:
Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Hazardous combustion products:
Oxides of carbon, oxides of nitrogen, irritating organic vapors.

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.
Ensure adequate ventilation.
Wear protective equipment.
See advice in section 8

Environmental precautions:
Do not empty into drains / surface water / ground water.

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.
Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Handling:
Use only in well-ventilated areas.
Vapours should be extracted to avoid inhalation.
Keep away from sources of ignition - no smoking.
Avoid skin and eye contact.
See advice in section 8

Storage:
Store in a cool, well-ventilated place.
Keep away from heat and direct sunlight.
Refer to Technical Data Sheet.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

ACETONE 67-64-1	**Value type**	Time Weighted Average (TWA):
	ppm	250
	Remarks	ACGIH
ACETONE 67-64-1	**Value type**	Time Weighted Average (TWA):
	ppm	1,000
	Remarks	TH OEL
ACETONE 67-64-1	**Value type**	Short Term Exposure Limit (STEL):
	ppm	500
	Remarks	ACGIH
COPPER, FUME AS CU 22221-10-9	**Value type**	Time Weighted Average (TWA):
	mg/m³	0.2
	Remarks	ACGIH
COPPER, DUSTS AND MISTS, AS CU 22221-10-9	**Value type**	Time Weighted Average (TWA):
	mg/m³	1
	Remarks	ACGIH
2-ETHYLHEXANOIC ACID, INHALABLE FRACTION AND VAPOR 149-57-5	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	ACGIH

Respiratory protection:
Ensure adequate ventilation.
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area
Filter type: A (EN 14387)

Hand protection:
Chemical-resistant protective gloves (EN 374).
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:
Wear protective glasses.
Protective eye equipment should conform to EN166.

Body protection:
Wear suitable protective clothing.
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:	green liquid
Odor:	Solvent, Acetone
Odor threshold (CA):	No data available.
pH:(Concentration: 100 % product)	6 - 7
Melting point / freezing point:	Not applicable, Product is a liquid
Specific gravity:	0.7936
Boiling point:	56 °C (132.8 °F)
Flash point:	-19 °C (-2.2 °F) Estimated
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Lower explosive limit:	2.6 %(V)
Upper explosive limit:	13 %(V)
Vapor pressure:	230 mbar
(; 20 °C (68 °F); 50 °C (122 °F))	800 mbar
Vapor density:	2.0
Density:	0.7936 g/cm3
Solubility:	Miscible
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
VOC content:	98 %
(2010/75/EC)	

Section 10. Stability and reactivity

Reactivity/Incompatible materials:
Reacts with strong oxidants.
Chemical stability:
Stable under recommended storage conditions.
Conditions to avoid:
No decomposition if used according to specifications.
Hazardous decomposition products:
Irritating organic vapours.

Section 11. Toxicological information

Health Effects:
Eyes: Causes serious eye irritation.
Symptoms of Overexposure**:** None known.

Acute oral toxicity:

acetone 67-64-1	Value type	LD50
	Value	5,800 mg/kg
	Species	rat
	Method	not specified
2-ethylhexanoic acid, copper salt 22221-10-9	Value type	LD50
	Value	481 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
2-ethylhexanoic acid 149-57-5	Value type	LD50
	Value	2,043 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)

Acute inhalative toxicity:

acetone 67-64-1	Value type	LC50
	Value	76 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified

Acute dermal toxicity:

acetone 67-64-1	Value type	LD50
	Value	> 15,688 mg/kg
	Species	rabbit
	Method	Draize Test
2-ethylhexanoic acid, copper salt 22221-10-9	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
2-ethylhexanoic acid 149-57-5	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

acetone 67-64-1	Result	not irritating
	Exposure time	
	Species	guinea pig
	Method	not specified
2-ethylhexanoic acid, copper salt 22221-10-9	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-ethylhexanoic acid 149-57-5	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

acetone 67-64-1	Result	irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2-ethylhexanoic acid, copper salt 22221-10-9	Result	corrosive
	Exposure time	4 h
	Species	Bovine, cornea, in vitro test
	Method	OECD Guideline 437 (BCOP)
2-ethylhexanoic acid 149-57-5	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

acetone 67-64-1	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	not specified

Germ cell mutagenicity:

acetone 67-64-1	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)
acetone 67-64-1	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)
acetone 67-64-1	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
acetone 67-64-1	Result	negative
	Type of study / Route of administration	oral: drinking water
	Metabolic activation / Exposure time	
	Species	mouse
	Method	not specified
2-ethylhexanoic acid 149-57-5	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	Ames Test

Repeated dose toxicity:

acetone 67-64-1	Result	NOAEL=900 mg/kg
	Route of application	oral: drinking water
	Exposure time / Frequency of treatment	13 wdaily
	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.

Ecotoxicity: H412 Harmful to aquatic life with long lasting effects.

Toxicity:

acetone 67-64-1	Value type	LC50
	Value	8,120 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
acetone 67-64-1	Value type	EC50
	Value	8,800 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia pulex
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
acetone 67-64-1	Value type	NOEC
	Value	530 mg/l
	Acute Toxicity Study	Algae
	Exposure time	8 d
	Species	Microcystis aeruginosa
	Method	DIN 38412-09
acetone 67-64-1	Value type	EC10
	Value	1,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	Pseudomonas putida
	Method	DIN 38412, part 27 (Bacterial oxygen consumption test)
2-ethylhexanoic acid, compound with tributylamine (1:1) 58823-74-8	Value type	LC50
	Value	> 10 - 100 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	not specified
	Method	Weight of evidence
2-ethylhexanoic acid, compound with tributylamine (1:1) 58823-74-8	Value type	EC50
	Value	> 10 - 100 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	not specified
	Method	Weight of evidence
2-ethylhexanoic acid, compound with tributylamine (1:1) 58823-74-8	Value type	EC50
	Value	> 10 - 100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	not specified
	Method	Weight of evidence
2-ethylhexanoic acid, copper salt 22221-10-9	Value type	LC50
	Value	0.06368 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
	Value type	NOEC
	Value	0.06316 mg/l
	Acute Toxicity Study	Fish
	Exposure time	30 d
	Species	Oncorhynchus mykiss
	Method	other guideline:
2-ethylhexanoic acid 149-57-5	Value type	LC50
	Value	> 100 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oryzias latipes
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-ethylhexanoic acid 149-57-5	Value type	EC50
	Value	913 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna

	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-ethylhexanoic acid 149-57-5	Value type	EC50
	Value	500 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC10
	Value	231.2 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-ethylhexanoic acid 149-57-5	Value type	EC10
	Value	72 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	17 h
	Species	
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)

Persistence and degradability:

acetone 67-64-1	Result	readily biodegradable
	Route of application	aerobic
	Degradability	81 - 92 %
	Method	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
2-ethylhexanoic acid, compound with tributylamine (1:1) 58823-74-8	Result	readily biodegradable
	Route of application	
	Degradability	> 60 %
	Method	Weight of evidence
2-ethylhexanoic acid 149-57-5	Result	inherently biodegradable
	Route of application	aerobic
	Degradability	> 70 %
	Method	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
	Result	readily biodegradable
	Route of application	aerobic
	Degradability	99 %
	Method	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)

Bioaccumulative potential / Mobility in soil:

acetone 67-64-1	LogPow	-0.24
	Temperature	
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
2-ethylhexanoic acid, compound with tributylamine (1:1) 58823-74-8	LogPow	4.15
	Temperature	
	Method	QSAR (Quantitative Structure Activity Relationship)
2-ethylhexanoic acid, copper salt 22221-10-9	LogPow	4.37
	Temperature	
	Method	QSAR (Quantitative Structure Activity Relationship)
2-ethylhexanoic acid 149-57-5	LogPow	2.7
	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

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.:	1090
Label:	3
Technical name:	ACETONE (solution)

Railroad transport RID:

Class:	3
Packing group:	II
Classification code:	F1
Hazard ident. number:	33
UN no.:	1090
Label:	3
Technical name:	ACETONE (solution)

Inland water transport ADN:

Class:	3
Packing group:	II
Classification code:	F1
Hazard ident. number:	33
UN no.:	1090
Label:	3
Technical name:	ACETONE (solution)

Marine transport IMDG:

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

Air transport IATA:

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

Section 15. Regulatory information

Regulatory Information:
Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555

Global inventory status:

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

Section 16. Other information

Disclaimer:
This Safety Data Sheet has been generated based on Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555 only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.
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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