Safety Data Sheet

LOCTITE SF 7246 BO500MLEN/CH/JP

SDS No. : 320551
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Section 1. Identification of the substance/preparation and of the company/undertaking

Product name:
LOCTITE SF 7246 BO500MLEN/CH/JP

Other means of identification:
LOCTITE SF 7246 BO500MLEN/CH/JP

Product code:
IDH563764

Recommended use of the chemical and restrictions on use

Intended use:
activator

Manufacturer/Importer/Distributor Representative Company

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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
Flammable liquids	Category 2
Serious eye damage/eye irritation	Category 2A
Toxic to reproduction	Category 1B
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.
H360 May damage fertility or the unborn child.
H371 May cause damage to the following organs:
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.
P270 Do not eat, drink or smoke when using this product.
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].
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+P311 If exposed or concerned: Call a POISON CENTER/doctor/…
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+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
Ethanol 64-17-5	60- 100 %	Flammable liquids 2 H225 Serious eye damage/eye irritation 2A H319
methanol 67-56-1	1- 10 %	Flammable liquids 2 H225 Acute toxicity 3; Oral H301 Acute toxicity 3; Inhalation H331 Acute toxicity 3; Dermal H311 Specific target organ toxicity - single exposure 1 H370
2-ethylhexanoic acid, compound with tributylamine (1:1) 58823-74-8	1- 10 %	Toxic to reproduction 1B H360 Acute hazards to the aquatic environment 2 H401
n-Heptane 142-82-5	0.1- 1 %	Flammable liquids 2 H225 Skin corrosion/irritation 2 H315 Specific target organ toxicity - single exposure 3 H336 Aspiration hazard 1 H304 Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 1 H410
4-methylpentan-2-one 108-10-1	0.1- 1 %	Flammable liquids 2 H225 Acute toxicity 5; Oral H303 Acute toxicity 4; Inhalation H332 Serious eye damage/eye irritation 2A H319 Carcinogenicity 2 H351 Specific target organ toxicity - single exposure 3 H336
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 not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
Get medical attention.

Skin contact:
Immediately flush skin with plenty of water (using soap, if available).
Remove contaminated clothing and footwear.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.

Eye contact:
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get medical attention.

Ingestion:
DO NOT induce vomiting unless directed to do so by medical personnel.
Never give anything by mouth to an unconscious person.
Get medical attention.

Section 5. Fire fighting measures

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

Specific hazards arising from the chemical:
Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.

Special protection equipment and precautions for firefighters:
Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
In case of fire, keep containers cool with water spray.

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

Section 6. Accidental release measures

Personal precautions:
Avoid skin and eye contact.
Wear protective equipment.
Ensure adequate ventilation.
See advice in section 8

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

Clean-up methods:
Remove all sources of ignition.
Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Scrape up as much material as possible.
Store in a partly filled, closed container until disposal.
Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Handling:
Use only with adequate ventilation.
Vapours should be extracted to avoid inhalation.
Keep away from sources of ignition - no smoking.
Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.
See advice in section 8

Storage:
Store in tightly closed containers. In a cool/well-ventilated area.
Keep away from heat and direct sunlight.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

ETHANOL 64-17-5	**Value type**	Short Term Exposure Limit (STEL):
	ppm	1,000
	Remarks	ACGIH
ETHANOL (ETHYL ALCOHOL) 64-17-5	**Value type**	Time Weighted Average (TWA):
	ppm	1,000
	Remarks	TH OEL
Methanol 67-56-1	**Value type**	Time Weighted Average (TWA):
	ppm	200
	Remarks	ACGIH
Methanol 67-56-1	**Value type**	Skin designation:
	Remarks	ACGIH Danger of cutaneous absorption
Methanol 67-56-1	**Value type**	Short Term Exposure Limit (STEL):
	ppm	250
	Remarks	ACGIH
HEPTANE, ALL ISOMERS 142-82-5	**Value type**	Time Weighted Average (TWA):
	ppm	400
	Remarks	ACGIH
HEPTANE (N-HEPTANE) 142-82-5	**Value type**	Time Weighted Average (TWA):
	ppm	500
	Remarks	TH OEL
HEPTANE, ALL ISOMERS 142-82-5	**Value type**	Short Term Exposure Limit (STEL):
	ppm	500
	Remarks	ACGIH
METHYL ISOBUTYL KETONE 108-10-1	**Value type**	Time Weighted Average (TWA):
	ppm	20
	Remarks	ACGIH
METHYL ISOBUTYL KETONE 108-10-1	**Value type**	Time Weighted Average (TWA):
	ppm	100
	Remarks	TH OEL
METHYL ISOBUTYL KETONE 108-10-1	**Value type**	Short Term Exposure Limit (STEL):
	ppm	75
	Remarks	ACGIH
COPPER, FUME AS CU 22221-10-9	**Value type**	Time Weighted Average (TWA):
	mg/m^3	0.2
	Remarks	ACGIH
COPPER, DUSTS AND MISTS, AS CU 22221-10-9	**Value type**	Time Weighted Average (TWA):
	mg/m^3	1
	Remarks	ACGIH
2-ETHYLHEXANOIC ACID, INHALABLE FRACTION AND VAPOR 149-57-5	**Value type**	Time Weighted Average (TWA):
	mg/m^3	5
	Remarks	ACGIH

Respiratory protection:
Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

Eye protection:
Safety goggles or safety glasses with side shields.
Full face protection should be used if the potential for splashing or spraying of product exists.
Protective eye equipment should conform to EN166.

Body protection:
Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.
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:	transparent, green Liquid
Odor:	None
Odor threshold (CA):	No data available.
pH:	Not available.
Melting point / freezing point:	Not determined
Specific gravity:	0.79
Boiling point:	No data available.
Flash point:	14 °C (57.2 °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. (; Method: no method / method unknown)

VOC content:	No data available.

Section 10. Stability and reactivity

Reactivity/Incompatible materials:
Strong oxidizing agents.
Reducing agents.
Possibility of hazardous reactions:
None under normal processing.

Conditions to avoid:
Elevated temperatures.
Heat, flames, sparks and other sources of ignition.
Store away from incompatible materials.
Stable under normal conditions of storage and use.
Hazardous decomposition products:
Oxides of carbon.
Oxides of nitrogen.
Irritating vapors.

Section 11. Toxicological information

Oral toxicity: Acute toxicity estimate (ATE) : > 2,000 mg/kg
Method: Calculation method

Inhalative toxicity: Acute toxicity estimate (ATE) : > 20 mg/l
Exposure time: 4 h
Test atmosphere: Vapor.
Method: Calculation method

Dermal toxicity: Acute toxicity estimate (ATE) : > 2,000 mg/kg
Method: Calculation method

Symptoms of Overexposure**:** None known.

Acute oral toxicity:

Ethanol 64-17-5	Value type	LD50
	Value	10,470 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
methanol 67-56-1	Value type	Acute toxicity estimate (ATE)
	Value	300 mg/kg
	Species	
	Method	Expert judgement
n-Heptane 142-82-5	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
4-methylpentan-2-one 108-10-1	Value type	LD50
	Value	2,080 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
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:

Ethanol 64-17-5	Value type	LC50
	Value	124.7 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)
n-Heptane 142-82-5	Value type	LC50
	Value	> 29.29 mg/l
	Exposure time	4 h
	Species	rat
	Method	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
4-methylpentan-2-one 108-10-1	Value type	Acute toxicity estimate (ATE)
	Value	11 mg/l
	Exposure time	
	Species	
	Method	Expert judgement
4-methylpentan-2-one 108-10-1	Value type	LC50
	Value	8.2 - 16.4 mg/l
	Exposure time	4 h
	Species	rat
	Method	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)

Acute dermal toxicity:

Ethanol 64-17-5	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
methanol 67-56-1	Value type	Acute toxicity estimate (ATE)
	Value	300 mg/kg
	Species	
	Method	Expert judgement
n-Heptane 142-82-5	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
4-methylpentan-2-one 108-10-1	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
4-methylpentan-2-one 108-10-1	Value type	LD0
	Value	>= 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
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:

Ethanol 64-17-5	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
methanol 67-56-1	Result	not irritating
	Exposure time	20 h
	Species	rabbit
	Method	BASF Test
n-Heptane	Result	irritating

142-82-5	Exposure time	
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
4-methylpentan-2-one 108-10-1	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
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:

Ethanol 64-17-5	Result	irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
methanol 67-56-1	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
n-Heptane 142-82-5	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
4-methylpentan-2-one 108-10-1	Result	slightly 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:

Ethanol 64-17-5	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
Ethanol 64-17-5	Result	not sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
methanol 67-56-1	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
n-Heptane 142-82-5	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
4-methylpentan-2-one 108-10-1	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Ethanol 64-17-5	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Ethanol 64-17-5	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Ethanol 64-17-5	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)
Ethanol 64-17-5	Result	negative
	Type of study / Route of administration	
	Metabolic activation / Exposure time	
	Species	
	Method	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
methanol 67-56-1	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)
methanol 67-56-1	Result	negative
	Type of study / Route of administration	in vitro mammalian cell micronucleus test
	Metabolic activation / Exposure time	without
	Method	not specified
methanol 67-56-1	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
methanol 67-56-1	Result	negative
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
n-Heptane 142-82-5	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
n-Heptane 142-82-5	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	not applicable
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
4-methylpentan-2-one 108-10-1	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
4-methylpentan-2-one 108-10-1	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	without
	Method	equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
4-methylpentan-2-one 108-10-1	Result	ambiguous without metabolic activation
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
4-methylpentan-2-one 108-10-1	Result	negative
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	equivalent or similar to OECD Guideline 474

		(Mammalian Erythrocyte Micronucleus Test)
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:

methanol 67-56-1	Result	NOAEL=6.63 mg/l
	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	4 weeks6 h/d, 5 d/w
	Species	rat
	Method	equivalent or similar to OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
methanol 67-56-1	Result	NOAEL=0.13 mg/l
	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	12 m20 h/d
	Species	rat
	Method	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
n-Heptane 142-82-5	Result	
	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	16 weeks12 hours/day, 7 days/week
	Species	rat
	Method	
4-methylpentan-2-one 108-10-1	Result	NOAEL=250 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	13 wdaily
	Species	rat
	Method	equivalent or similar to 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:

Ethanol 64-17-5	Value type	LC50
	Value	14,200 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians)
	Value type	NOEC
	Value	250 mg/l
	Acute Toxicity Study	Fish
	Exposure time	120 h
	Species	Danio rerio
	Method	OECD Guideline 212 (Fish, Short-term Toxicity Test on Embryo and Sac-Fry Stages)
Ethanol 64-17-5	Value type	EC50
	Value	5,012 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Ceriodaphnia dubia
	Method	other guideline:
Ethanol 64-17-5	Value type	EC50
	Value	275 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h

	Species	Chlorella vulgaris
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC10
	Value	11.5 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Chlorella vulgaris
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethanol 64-17-5	Value type	IC50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
methanol 67-56-1	Value type	LC50
	Value	15,400 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Lepomis macrochirus
	Method	EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians)
	Value type	NOEC
	Value	7,900 mg/l
	Acute Toxicity Study	Fish
	Exposure time	200 h
	Species	Oryzias latipes
	Method	OECD Guideline 210 (fish early lite stage toxicity test)
methanol 67-56-1	Value type	EC50
	Value	18,260 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	96 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
methanol 67-56-1	Value type	EC50
	Value	22,000 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
methanol 67-56-1	Value type	IC50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge of a predominantly domestic sewage
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition 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
n-Heptane 142-82-5	Value type	LC50
	Value	> 220 - 270 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Leuciscus idus
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
n-Heptane 142-82-5	Value type	EC50
	Value	1.5 mg/l

	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	other guideline:
4-methylpentan-2-one 108-10-1	Value type	LC50
	Value	600 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Salmo gairdneri (new name: Oncorhynchus mykiss)
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
4-methylpentan-2-one 108-10-1	Value type	EC50
	Value	170 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
4-methylpentan-2-one 108-10-1	Value type	EC50
	Value	400 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
4-methylpentan-2-one 108-10-1	Value type	EC0
	Value	275 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	16 h
	Species	
	Method	not specified
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:

Ethanol 64-17-5	Result	readily biodegradable
	Route of application	aerobic
	Degradability	80 - 85 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
methanol 67-56-1	Result	readily biodegradable
	Route of application	aerobic
	Degradability	82 - 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
n-Heptane 142-82-5	Result	readily biodegradable
	Route of application	aerobic
	Degradability	70 %
	Method	other guideline:
4-methylpentan-2-one 108-10-1	Result	readily biodegradable
	Route of application	aerobic
	Degradability	99 %
	Method	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
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:

Ethanol 64-17-5	LogPow	-0.35
	Temperature	24 °C
	Method	not specified
methanol 67-56-1	Bioconcentration factor (BCF)	< 10
	Exposure time	72 h
	Species	Leuciscus idus melanotus
	Temperature	
	Method	not specified
methanol 67-56-1	LogPow	-0.77
	Temperature	
	Method	other guideline:
2-ethylhexanoic acid, compound with tributylamine (1:1) 58823-74-8	LogPow	4.15
	Temperature	
	Method	QSAR (Quantitative Structure Activity Relationship)
n-Heptane 142-82-5	Bioconcentration factor (BCF)	552
	Exposure time	
	Species	calculation
	Temperature	
	Method	QSAR (Quantitative Structure Activity Relationship)
n-Heptane 142-82-5	LogPow	4.66
	Temperature	
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
4-methylpentan-2-one 108-10-1	LogPow	1.31
	Temperature	20 °C
	Method	not specified
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.:	1139
Label:	3
Technical name:	COATING SOLUTION
Additional information:	Special provision 640D

Railroad transport RID:

Class:	3
Packing group:	II
Classification code:	F1
Hazard ident. number:	33
UN no.:	1139
Label:	3
Technical name:	COATING SOLUTION
Additional information:	Special provision 640D

Inland water transport ADN:

Class:	3
Packing group:	II
Classification code:	F1
Hazard ident. number:	33
UN no.:	1139
Label:	3
Technical name:	COATING SOLUTION
Additional information:	Special provision 640D

Marine transport IMDG:

Class:	3
Packing group:	II
UN no.:	1139
Label:	3
EmS:	F-E ,S-E
Seawater pollutant:	-
Proper shipping name:	COATING SOLUTION

Air transport IATA:

Class:	3
Packing group:	II
Packaging instructions (passenger):	353
Packaging instructions (cargo):	364
UN no.:	1139
Label:	3
Proper shipping name:	Coating 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
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.
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