Safety Data Sheet according to GB/T 16483-2008

LOCTITE LB 8017 1.3LB EN

SDS No. : 153759
V001.3
Revision: 20.06.2024
printing date: 10.09.2024

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

Product name: **LOCTITE LB 8017 1.3LB EN**

Intended use: Antiseize

Manufacturer/Importer/Distributor Representative Company

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Revision date: 20.06.2024

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2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 (General rule for classification and hazard communication of chemicals):

Hazard Class	Hazard Category	Target organ
Flammable liquids	Category 3	
Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritation	Category 2A	
Carcinogenicity	Category 1B	
Toxic to reproduction	Category 2	
Specific target organ toxicity - single exposure	Category 3	respiratory tract irritation
Aspiration hazard	Category 1	
Acute hazards to the aquatic environment	Category 2	
Chronic hazards to the aquatic environment	Category 2	

Label elements according to GB 15258-2009 (General rules for preparation of precautionary label for chemicals):

Hazard pictogram:

Signal word: Danger

Hazard statement:	H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child. H411 Toxic to aquatic life with long lasting effects.
Prevention:	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. 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. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response:	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. 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. P331 Do NOT induce vomiting. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. P391 Collect spillage.
Storage:	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.
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.

3. Composition / information on ingredients

Substance or Mixture:
Mixture

Declaration of the ingredients according to GB 13690-2009:

Hazard component CAS-No.	Content	GHS Classification
1,2,4-trimethylbenzene 95-63-6	10- < 20 %	Flammable liquids 3 H226 Acute toxicity 4; Inhalation H332 Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 2A H319 Specific target organ toxicity - single exposure 3 H335 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 2 H411
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	10- < 20 %	Aspiration hazard 1 H304 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 2 H411
Toluene 108-88-3	3- < 10 %	Flammable liquids 2 H225 Acute toxicity 5; Inhalation H333 Skin corrosion/irritation 2 H315 Toxic to reproduction 2 H361 Specific target organ toxicity - single exposure 3 H336 Specific target organ toxicity - repeated exposure 2; Inhalation H373 Aspiration hazard 1 H304 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 3 H412
Mesitylene 108-67-8	2.5- < 10 %	Flammable liquids 3 H226 Skin corrosion/irritation 2 H315 Specific target organ toxicity - single exposure 3 H335, H336 Aspiration hazard 1 H304 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 2 H411
Diethylbenzene 25340-17-4	1- < 2.5 %	Flammable liquids 3 H226 Acute toxicity 5; Oral H303 Skin corrosion/irritation 2 H315 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 2 H411
cumene 98-82-8	0.25- < 1 %	Flammable liquids 3 H226 Acute toxicity 5; Oral H303 Acute toxicity 5; Inhalation H333 Carcinogenicity 1B

		H350 Specific target organ toxicity - single exposure 3 H335 Aspiration hazard 1 H304 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 3 H412

Only hazardous ingredients for which a classification according to GB 13690-2009 is already available are displayed in this table. For full text of the Hazard statements see section 16 "Other information".

4. First aid measures

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.

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

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

5. Fire fighting measures

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

Extinguishing media: Carbon dioxide, foam, powder

Fire-fighting method: In case of fire, keep containers cool with water spray.

Notice and measures for firing fighting: In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.
Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

6. Accidental release measures

Emergency measures: Avoid skin and eye contact.
Do not let product enter drains.
Ensure adequate ventilation.

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.

7. Handling and storage

Notice for handling: Use only in well-ventilated areas.
Vapours should be extracted to avoid inhalation.
Keep away from sources of ignition - no smoking.

Notice for storage: Refer to Technical Data Sheet.

8. Exposure controls / personal protection

Hazardous components	GBZ 2.1-2019	ACGIH	NIOSH	OSHA
Molybdenum disulphide	6 mg/m3PC-TWA 4 mg/m3PC-TWA	10 mg/m3 TWA Inhalable fraction. 3 mg/m3 TWA Respirable fraction. 0.5 mg/m3 TWA Respirable fraction.		none
Graphite	2 mg/m3PC-TWA Respirable dust. 4 mg/m3PC-TWA Total dust.	2 mg/m3 TWA Respirable fraction.		none
Toluene	(SKIN) 100 mg/m3PC-STEL 50 mg/m3PC-TWA	20 ppm TWA		none

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

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

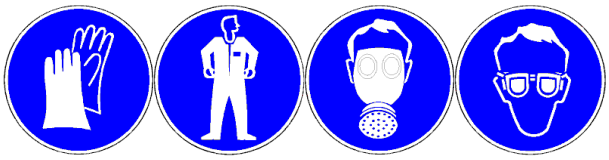
Eye protection: Wear protective glasses.

Body protection: Wear suitable protective clothing.

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.

Other protection: The selection of PPE shall at least compliant with "Law of the People's Republic of China on Prevention and Control of Occupational Diseases" and "Specification of the provision of personal protective equipment—Part 1: General requirement" (GB 39800.1-2020).

Pictograms for recommended PPE:



9. Physical and chemical properties

Physical state:	liquid	Appearance:	Gray
Evaporation rate:	Not available.	Odor:	Characteristic
pH:	Not applicable, Product is non-soluble (in water).	Melting point:	Not applicable, Product is a liquid
Boiling point:	76 - 168 °C (168.8 - 334.4 °F)	Density:	1.3028 g/cm3
Vapor density:	> 1 Heavier than air.	Vapor pressure:	Not available.
Flash point:	29 °C (84.2 °F)	Ignition temperature:	Not available.
Lower explosive limit:	0.9 %(V)	Upper explosive limit:	7 %(V)
Solubility in water	Not miscible	Viscosity:	Not available. 0.63 mm2/s
Auto-ignition temperature:	Not determined	Flammability:	Not available.
Octanol / water distribution coefficient:	Not applicable, Mixture	Decomposition temperature:	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use
VOC:	Not available.		

10. Stability and reactivity

Stability: Stable under recommended storage conditions.

Conditions to avoid: Stable

Incompatible products: Reacts with strong oxidants.

Decomposition products: Irritating organic vapours.

11. Toxicological information

General toxicological information:

No laboratory animal data available.

Oral toxicity:

Acute toxicity estimate (ATE) : > 5,000 mg/kg
Method: Calculation method

Inhalative toxicity:

Acute toxicity estimate (ATE) : > 40 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Carcinogenicity

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

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Toluene 108-88-3	not carcinogenic	inhalation: vapour	103 w 6.5 h/d, 5 d/w	rat	male/female	equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
1,2,4-trimethylbenzene 95-63-6	LD50 LC50 LD50	6,000 mg/kg 18 mg/l > 3,440 mg/kg	oral inhalation dermal	 4 h 	rat rat rat	EU Method B.1 (Acute Toxicity (Oral)) not specified not specified
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	LD50 LC50 LD50	> 5,000 mg/kg > 7.63 mg/l > 2,000 mg/kg	oral inhalation dermal	 4 h 	rat rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
Toluene 108-88-3	LD50 LC50 LD50	5,580 mg/kg 28.1 mg/l > 5,000 mg/kg	oral inhalation dermal	 4 h 	rat rat rabbit	EU Method B.1 (Acute Toxicity (Oral)) equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity) not specified
Mesitylene 108-67-8	LD50 LD50	6,000 mg/kg > 3,440 mg/kg	oral dermal	 	rat rat	EU Method B.1 (Acute Toxicity (Oral)) not specified
Diethylbenzene 25340-17-4	LD50 LD50	2,050 mg/kg > 5,000 mg/kg	oral dermal	 	rat rabbit	EPA OPP 81-1 (Acute Oral Toxicity) EPA OPP 81-2 (Acute Dermal Toxicity)
cumene 98-82-8	LD50 Acute toxicity estimate (ATE) LC50 LC50 LD50	2,260 mg/kg 21 mg/l < 39 mg/l > 17.6 mg/l > 10,000 mg/kg	oral inhalation inhalation dermal	 4 h 4 h 6 h 	rat rat rat rabbit	not specified Expert judgement not specified not specified not specified

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
1,2,4-trimethylbenzene 95-63-6	irritating	4 h	rabbit	EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion)
Toluene 108-88-3	irritating	4 h	rabbit	EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion)
Mesitylene 108-67-8	irritating	4 h	rabbit	EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion)
Diethylbenzene 25340-17-4	Category 2 (irritant)	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
cumene 98-82-8	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Toluene 108-88-3	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Mesitylene 108-67-8	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Diethylbenzene 25340-17-4	not irritating		rabbit	EPA OPP 81-4 (Acute Eye Irritation)
cumene 98-82-8	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
1,2,4-trimethylbenzene 95-63-6	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Toluene 108-88-3	not sensitising	Guinea pig maximisation test	guinea pig	EU Method B.6 (Skin Sensitisation)
Mesitylene 108-67-8	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Diethylbenzene 25340-17-4	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
cumene 98-82-8	not sensitising	Guinea pig maximisation test	guinea pig	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
1,2,4-trimethylbenzene 95-63-6	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 with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) EU Method B.10 (Mutagenicity) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
1,2,4-trimethylbenzene 95-63-6	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	negative negative	bacterial reverse mutation assay (e.g Ames test) sister chromatid exchange assay in mammalian cells	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	negative	inhalation		rat	EPA OPPTS 870.5395 (In Vivo Mammalian Cytogenics Tests: Erythrocyte Micronucleus Assay)
Toluene 108-88-3	negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay	with and without with and without		EU Method B.13/14 (Mutagenicity) equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Toluene 108-88-3	negative negative	intraperitoneal inhalation: vapour		rat mouse	not specified OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)
Mesitylene 108-67-8	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 with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) EU Method B.10 (Mutagenicity) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Mesitylene 108-67-8	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Diethylbenzene 25340-17-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
cumene 98-82-8	negative negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	with and without 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) OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
cumene 98-82-8	negative	inhalation: gas		mouse	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
1,2,4-trimethylbenzene 95-63-6	NOAEL=600 mg/kg	oral: gavage	90-91 d5 d/w	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
1,2,4-trimethylbenzene 95-63-6	NOAEL=1.230 mg/l	inhalation: vapour	3 months6 h/d, 5 d/week	rat	equivalent or similar to OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
1,2,4-trimethylbenzene 95-63-6	NOAEL=1.830 mg/l	inhalation: vapour	12 months6 h/d, 5 d/week	rat	equivalent or similar to OECD Guideline 452 (Chronic Toxicity Studies)
Toluene 108-88-3	NOAEL=625 mg/kg	oral: gavage	13 wdaily, 5 d/w	rat	EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
Toluene 108-88-3	NOAEL=1131 mg/m3	inhalation: vapour	24 m6.5 h/d, 5 d/w	rat	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Toluene 108-88-3	NOAEL=2355 mg/m3	inhalation: vapour	15 w6.5 h/d, 5 d/w	rat	EU Method B.29 (Sub-Chronic Inhalation Toxicity Test:90-Day Repeated Inhalation Dose Study Using Rodent Species)
Mesitylene 108-67-8	NOAEL=600 mg/kg	oral: gavage	90-91 d5 d/w (65-66 doses)	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Mesitylene 108-67-8	NOAEL=1.230 mg/l	inhalation: vapour	3 months6 h/d, 5 d/week	rat	equivalent or similar to OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Mesitylene 108-67-8	NOAEL=1.830 mg/l	inhalation: vapour	12 months6 h/d, 5 d/week	rat	equivalent or similar to OECD Guideline 452 (Chronic Toxicity Studies)
cumene 98-82-8	NOAEL=> 535.8 mg/kg	oral: feed	28 ddaily	rat	not specified
cumene 98-82-8	NOAEL=125 ppm	inhalation: vapour	14 w6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)

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
1,2,4-trimethylbenzene 95-63-6	LC50	7.72 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
1,2,4-trimethylbenzene 95-63-6	EC50	3.6 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	LL50	8.2 mg/l	Fish	96 h	Pimephales promelas	EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	EL50	4.5 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	EL50	3.1 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	NOELR	0.5 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Toluene 108-88-3	NOEC	3.2 mg/l	Fish	28 d	Cyprinodon variegatus	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Toluene 108-88-3	LC50	5.5 mg/l	Fish	96 h	Oncorhynchus kisutch	OECD Guideline 203 (Fish, Acute Toxicity Test)
Toluene 108-88-3	EC50	3.78 mg/l	Daphnia	48 h	Ceriodaphnia dubia	other guideline:
Toluene 108-88-3	IC50	12 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Toluene 108-88-3	NOEC	29 mg/l	Bacteria	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
Mesitylene 108-67-8	LC50	12.52 mg/l	Fish	96 h	Carassius auratus	other guideline:
Mesitylene 108-67-8	EC50	6 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Mesitylene 108-67-8	EC50	53 mg/l	Algae	48 h	Desmodesmus subspicatus	DIN 38412-09
Mesitylene 108-67-8	EC10	16 mg/l	Algae	48 h	Desmodesmus subspicatus	DIN 38412-09
cumene 98-82-8	LC50	4.8 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
cumene 98-82-8	EC50	2.14 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
cumene 98-82-8	EC50	2.01 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
cumene 98-82-8	EC10	1.35 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
cumene 98-82-8	EC10	211 mg/l	Bacteria	24 h		DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)

Persistence and degradability:

Hazardous components **CAS-No.**	**Result**	**Route of application**	**Degradability**	**Method**
1,2,4-trimethylbenzene 95-63-6	not readily biodegradable.	not specified	> 0 - < 60 %	OECD 301 A - F
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	readily biodegradable	aerobic	77 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Toluene 108-88-3	readily biodegradable	aerobic	80 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Mesitylene 108-67-8	readily biodegradable, but failing 10-day window	aerobic	61 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
cumene 98-82-8	readily biodegradable	aerobic	86 %	ISO 10708 (BODIS-Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
1,2,4-trimethylbenzene 95-63-6	3.63					other guideline:
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	2.13 - 4.58					QSAR (Quantitative Structure Activity Relationship)
Toluene 108-88-3		90	3 d	Leuciscus idus melanotus		OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Toluene 108-88-3	2.73				20 °C	EU Method A.8 (Partition Coefficient)
Mesitylene 108-67-8	3.42					other guideline:
cumene 98-82-8		35.5		Carassius auratus		OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
cumene 98-82-8	3.55				23 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

13. Disposal considerations

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

Disposal of uncleaned packages: After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

14. Transport information

Road transport CN_DG:

Class:	3
Packing group:	III
Classification code:	
Hazard ident. number:	
UN no.:	1263
Label:	3
Technical name:	PAINT

Marine transport IMDG:

Class:	3
Packing group:	III
UN no.:	1263
Label:	3
EmS:	F-E ,S-E
Seawater pollutant:	Marine pollutant
Proper shipping name:	PAINT (1,2,4-Trimethylbenzene,Solvent Naphtha (Petroleum), Light Aromatic)

Air transport IATA:

Class:	3
Packing group:	III
Packaging instructions (passenger):	355
Packaging instructions (cargo):	366
UN no.:	1263
Label:	3
Proper shipping name:	Paint

Notice For Transportation: Transport according to local and national regulations. Ensure containers will not leak, collapse, or being damaged when transported. DO NOT transport with incompatible materials. Transportation vehicle should be equipped with right fire-fighting equipment in case of emergency. Avoid solarization, drenched and high temperature when transported.

15. Regulatory information

The following laws and regulations lay down provisions in terms of chemicals safety use, storage, transportation, loading/ unloading, classification as well as symbol.
“Law of the People's Republic of China on Work Safety” (Adopted by the 28th meeting of 9th NPC standing committee on 29th June 2002, revised by 29th meeting of 13nd NPC standing committee on 10th Jun 2021).
Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases” (Adopted by the 24th meeting of 9th NPC standing committee on 27th October 2001, revised by 7th meeting of 13rd NPC standing committee on 29th Dec 2018).
“Law of the People's Republic of China on environmental protection” (Adopted by 11st meeting of 7th NPC standing committee on 26th December 1989, revised by 8th meeting of 12nd NPC standing committee on 24th Apr 2014).
“Regulation on the Safety Management of Hazardous Chemicals” (Adopted by 32nd State Council executive meeting on 4th December 2013).
“Regulations on License to Work Safety” (Adopted by 54th State Council executive meeting on 29th July 2014).

China Inventory of Existing Chemicals: All components are listed or are exempt from Inventory of Existing Chemical Substances in China.

16. Other information

Issue date: 10.09.2024
Issue department: Product Safety & Regulatory Affairs for China

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Others:

The full text of all abbreviations indicated by codes in this safety data sheet section 3 are as follows:

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H303 May be harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H333 May be harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H350 May cause cancer.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
H401 Toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.