Safety Data Sheet

LOCTITE LB 8017 MO FILM AS 12OZ

SDS No. : 470393
V001.7
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Section 1. Identification of the substance/preparation and of the company/undertaking

Product name:
LOCTITE LB 8017 MO FILM AS 12OZ

Other means of identification:
LOCTITE LB 8017 MO FILM AS 12OZ

Product code:
IDH1786074

Recommended use of the chemical and restrictions on use

Intended use:
Antiseize

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 aerosols	Category 1	
Serious eye damage/eye irritation	Category 2A	
Germ cell mutagenicity	Category 1B	
Carcinogenicity	Category 1A	
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:
H222 Extremely flammable aerosol.
H229 Pressurized container: May burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H340 May cause genetic defects.
H350 May cause cancer.
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.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
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:
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.

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

Disposal:
P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, 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	30- 60 %	Flammable liquids 2 H225 Serious eye damage/eye irritation 2A H319 Specific target organ toxicity - single exposure 3 H336
Methyl acetate 79-20-9	10- 30 %	Flammable liquids 2 H225 Serious eye damage/eye irritation 2A H319 Specific target organ toxicity - single exposure 3 H336
Petroleum gases, liquified, sweetened 68476-86-8	10- 30 %	Flammable gases 1 H220 Gases under pressure Compr. Gas H280 Germ cell mutagenicity 1B H340 Carcinogenicity 1A H350
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	1- 10 %	Flammable liquids 3 H226 Specific target organ toxicity - single exposure 3 H336 Aspiration hazard 1 H304 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 2 H411
1,2,4-trimethylbenzene 95-63-6	1- 10 %	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
Graphite 7782-42-5	1- 10 %	
Molybdenum disulphide 1317-33-5	1- 10 %	

Section 4. First aid measures

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

Skin contact:
Rinse with running water and soap.
Obtain medical attention if irritation persists.

Eye contact:
Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:
Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

Indication of immediate medical attention and special treatment needed:
See section: Description of first aid measures

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), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

Special protection equipment and precautions for firefighters:
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.

Section 6. Accidental release measures

Personal precautions:
Avoid skin and eye contact.
Ensure adequate ventilation.
Remove sources of ignition.
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.
Avoid skin and eye contact.
Keep away from sources of ignition - no smoking.
See advice in section 8

Storage:
Store in sealed original container.
Do not expose to direct heat.
Protect from direct sunlight.

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
METHYL ACETATE 79-20-9	**Value type**	Time Weighted Average (TWA):
	ppm	200
	Remarks	ACGIH
METHYL ACETATE 79-20-9	**Value type**	Short Term Exposure Limit (STEL):
	ppm	250
	Remarks	ACGIH
Trimethyl benzene (all isomers) (1,2,4-Trimethyl benzene) 95-63-6	**Value type**	Time Weighted Average (TWA):
	ppm	10
	Remarks	ACGIH
GRAPHITE (ALL FORMS EXCEPT GRAPHITE FIBERS), RESPIRABLE FRACTION 7782-42-5	**Value type**	Time Weighted Average (TWA):
	mg/m³	2
	Remarks	ACGIH
MOLYBDENUM, METAL AND INSOLUBLE COMPOUNDS, AS MO, INHALABLE FRACTION 1317-33-5	**Value type**	Time Weighted Average (TWA):
	mg/m³	10
	Remarks	ACGIH
MOLYBDENUM, METAL AND INSOLUBLE COMPOUNDS, AS MO, RESPIRABLE FRACTION 1317-33-5	**Value type**	Time Weighted Average (TWA):
	mg/m³	3
	Remarks	ACGIH
Molybdenum, soluble compounds, as Mo, respirable fraction 1317-33-5	**Value type**	Time Weighted Average (TWA):
	mg/m³	0.5
	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:
Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.
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:	Black Aerosol, Liquid
Odor:	Solvent
Odor threshold (CA):	No data available.
pH:	Not available.
Melting point / freezing point:	No data available.
Specific gravity:	1.3
Boiling point:	No data available.
Flash point:	< -17 °C (< 1.4 °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:	7.89 lb/gal
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.
VOC content:	No data available.

Section 10. Stability and reactivity

Reactivity/Incompatible materials:
Reacts with strong oxidants.
Chemical stability:
Stable under recommended storage conditions.

Conditions to avoid:
Heat, flames, sparks and other sources of ignition.
Hazardous decomposition products:
Irritating organic vapours.

Section 11. Toxicological information

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

Symptoms of Overexposure**:** Prolonged or repeated contact may cause skin irritation.
Vapors may cause drowsiness and dizziness.
EYE: Irritation, conjunctivitis.

Acute oral toxicity:

acetone 67-64-1	Value type	LD50
	Value	5,800 mg/kg
	Species	rat
	Method	not specified
Methyl acetate 79-20-9	Value type	LD50
	Value	6,482 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
1,2,4-trimethylbenzene 95-63-6	Value type	LD50
	Value	6,000 mg/kg
	Species	rat
	Method	EU Method B.1 (Acute Toxicity (Oral))
Graphite 7782-42-5	Value type	Acute toxicity estimate (ATE)
	Value	> 5,000 mg/kg
	Species	
	Method	Expert judgement
Molybdenum disulphide 1317-33-5	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	not specified

Acute inhalative toxicity:

acetone 67-64-1	Value type	LC50
	Value	76 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified
Methyl acetate 79-20-9	Value type	LC50
	Value	> 49.2 mg/l
	Exposure time	4 h
	Species	rabbit
	Method	not specified
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	Value type	LC50
	Value	> 7.63 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)
1,2,4-trimethylbenzene 95-63-6	Value type	LC50
	Value	18 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified
Graphite 7782-42-5	Value type	LC50
	Value	> 2 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)

Acute dermal toxicity:

acetone 67-64-1	Value type	LD50
	Value	> 15,688 mg/kg
	Species	rabbit
	Method	Draize Test
Methyl acetate 79-20-9	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
1,2,4-trimethylbenzene 95-63-6	Value type	LD50
	Value	> 3,440 mg/kg
	Species	rat
	Method	not specified
Molybdenum disulphide 1317-33-5	Value type	LD50
	Value	> 16,000 mg/kg
	Species	rat
	Method	not specified

Skin corrosion/irritation:

acetone 67-64-1	Result	not irritating
	Exposure time	
	Species	guinea pig
	Method	not specified
Methyl acetate 79-20-9	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
1,2,4-trimethylbenzene 95-63-6	Result	irritating
	Exposure time	4 h
	Species	rabbit
	Method	EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion)
Graphite 7782-42-5	Result	not irritating
	Exposure time	4 h
	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)
Methyl acetate 79-20-9	Result	irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Graphite 7782-42-5	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
Methyl acetate 79-20-9	Result	not sensitising
	Test type	Skin sensitisation
	Species	human
	Method	Weight of evidence
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	Result	not sensitising
	Test type	Buehler test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
1,2,4-trimethylbenzene 95-63-6	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
Graphite 7782-42-5	Result	not sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

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
Methyl acetate 79-20-9	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)
Methyl acetate 79-20-9	Result	negative
	Type of study / Route of administration	inhalation
	Metabolic activation / Exposure time	
	Species	rat
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	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)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	Result	negative
	Type of study / Route of administration	sister chromatid exchange assay in mammalian cells
	Metabolic activation / Exposure time	with and without
	Method	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	Result	negative
	Type of study / Route of administration	inhalation
	Metabolic activation / Exposure time	
	Species	rat
	Method	EPA OPPTS 870.5395 (In Vivo Mammalian Cytogenics Tests: Erythrocyte Micronucleus Assay)
1,2,4-trimethylbenzene 95-63-6	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)
1,2,4-trimethylbenzene 95-63-6	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	EU Method B.10 (Mutagenicity)
1,2,4-trimethylbenzene 95-63-6	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)
1,2,4-trimethylbenzene 95-63-6	Result	negative
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Graphite 7782-42-5	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)
Graphite	Result	negative

7782-42-5	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)
Graphite 7782-42-5	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)

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)
Methyl acetate 79-20-9	Result	NOAEL=350 ppm
	Route of application	inhalation: aerosol
	Exposure time / Frequency of treatment	28 d6 h/d, 5 d/w
	Species	rat
	Method	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
1,2,4-trimethylbenzene 95-63-6	Result	NOAEL=600 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	90-91 d5 d/w
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
1,2,4-trimethylbenzene 95-63-6	Result	NOAEL=1.230 mg/l
	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	3 months6 h/d, 5 d/week
	Species	rat
	Method	equivalent or similar to OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
1,2,4-trimethylbenzene 95-63-6	Result	NOAEL=1.830 mg/l
	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	12 months6 h/d, 5 d/week
	Species	rat
	Method	equivalent or similar to OECD Guideline 452 (Chronic Toxicity Studies)
Graphite 7782-42-5	Result	NOAEL=ca. 813 mg/kg
	Route of application	oral: feed
	Exposure time / Frequency of treatment	daily
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

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)
Methyl acetate 79-20-9	Value type	LC50
	Value	250 - 350 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Brachydanio rerio (new name: Danio rerio)
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Methyl acetate 79-20-9	Value type	EC50
	Value	1,026.7 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Methyl acetate 79-20-9	Value type	EC50
	Value	> 120 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	120 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methyl acetate 79-20-9	Value type	EC10
	Value	1,830 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	16 h
	Species	Pseudomonas putida
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	Value type	LL50
	Value	8.2 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)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	Value type	EL50
	Value	4.5 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	Value type	EL50
	Value	3.1 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOELR
	Value	0.5 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h

	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,2,4-trimethylbenzene 95-63-6	Value type	LC50
	Value	7.72 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
1,2,4-trimethylbenzene 95-63-6	Value type	EC50
	Value	3.6 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1,2,4-trimethylbenzene 95-63-6	Value type	EC10
	Value	16 mg/l
	Acute Toxicity Study	Algae
	Exposure time	48 h
	Species	Desmodesmus subspicatus
	Method	DIN 38412-09
	Value type	EC50
	Value	53 mg/l
	Acute Toxicity Study	Algae
	Exposure time	48 h
	Species	Desmodesmus subspicatus
	Method	DIN 38412-09
Graphite 7782-42-5	Value type	LC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Danio rerio
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Graphite 7782-42-5	Value type	EC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Graphite 7782-42-5	Value type	EC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Graphite 7782-42-5	Value type	EC50
	Value	Toxicity > Water solubility
	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)
Molybdenum disulphide 1317-33-5	Value type	LC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Molybdenum disulphide 1317-33-5	Value type	EC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Molybdenum disulphide 1317-33-5	Value type	EC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Algae

	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition 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)
Methyl acetate 79-20-9	Result	readily biodegradable
	Route of application	aerobic
	Degradability	70 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
	Result	inherently biodegradable
	Route of application	aerobic
	Degradability	> 95 %
	Method	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	Result	readily biodegradable
	Route of application	aerobic
	Degradability	77 %
	Method	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
1,2,4-trimethylbenzene 95-63-6	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	61 %
	Method	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry 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)
Methyl acetate 79-20-9	LogPow	0.18
	Temperature	
	Method	other guideline:
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	LogPow	2.13 - 4.58
	Temperature	
	Method	QSAR (Quantitative Structure Activity Relationship)
1,2,4-trimethylbenzene 95-63-6	LogPow	3.63
	Temperature	
	Method	other guideline:

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:	2
Packing group:	
Classification code:	5F
Hazard ident. number:	
UN no.:	1950
Label:	2.1
Technical name:	AEROSOLS

Railroad transport RID:

Class:	2
Packing group:	
Classification code:	5F
Hazard ident. number:	23
UN no.:	1950
Label:	2.1
Technical name:	AEROSOLS

Inland water transport ADN:

Class:	2
Packing group:	
Classification code:	5F
Hazard ident. number:	
UN no.:	1950
Label:	2.1
Technical name:	AEROSOLS

Marine transport IMDG:

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

Air transport IATA:

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

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
IECSC	yes
AIIC	yes
NZIOC	yes
TCSI	yes
PICCS (PH)	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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