Safety Data Sheet

LOCTITE LB 8034 A

SDS No. : 153728
V001.6
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Section 1. Identification of the substance/preparation and of the company/undertaking

Product name:
LOCTITE LB 8034 A

Other means of identification:
LOCTITE LB 8034 A

Product code:
IDH3023003

Recommended use of the chemical and restrictions on use

Intended use:
Lubricant

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
Skin sensitizer	Category 1
Chronic hazards to the aquatic environment	Category 2

GHS label elements:

Hazard pictogram:



Signal word:
Warning

Hazard statement:
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precaution:

Prevention:
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves.
Response:
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
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
Calcium carbonate 471-34-1	1- 10 %	
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	1- 10 %	
zinc oxide 1314-13-2	1- 10 %	Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 1 H410
Diboron calcium tetraoxide 13701-64-9	1- 10 %	Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 2A H319 Specific target organ toxicity - single exposure 3 H335
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	1- 10 %	Skin corrosion/irritation 3 H316 Toxic to reproduction 2 H361 Specific target organ toxicity - repeated exposure 2 H373 Acute hazards to the aquatic environment 3 H402
Benzenesulfonic acid, C10- 60-alkyl derivitives, caclcium salts 90194-27-7	1- 10 %	Skin sensitizer 1 H317 Chronic hazards to the aquatic environment 4 H413
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0	0.1- 1 %	Skin sensitizer 1B H317

Section 4. First aid measures

Inhalation:
Move to fresh air. If symptoms persist, seek medical advice.
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 mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

Section 5. Fire fighting measures

Suitable extinguishing media:
Foam, extinguishing powder, carbon dioxide.

Special protection equipment and precautions for firefighters:
Wear self-contained breathing apparatus.
In case of fire, keep containers cool with water spray.

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

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

Clean-up methods:
Wipe up using absorbent material.
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 in well-ventilated areas.
Avoid skin and eye contact.

Storage:
Store in a cool, dry place.
Do not store near sources of heat or ignition, or reactive materials.
Store in a cool, dry place.
Do not store near sources of heat or ignition, or reactive materials.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

Calcium carbonate, respirable dust 471-34-1	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	TH OEL
Calcium carbonate 471-34-1	**Value type**	Time Weighted Average (TWA):
	mg/m³	10
Particles (insoluble or poorly soluble) not otherwise specified, respirable particles 471-34-1	**Value type**	Time Weighted Average (TWA):
	mg/m³	3
	Remarks	ACGIH
Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles 471-34-1	**Value type**	Time Weighted Average (TWA):
	mg/m³	10
	Remarks	ACGIH
Calcium carbonate, inhalable dust 471-34-1	**Value type**	Time Weighted Average (TWA):
	mg/m³	15
	Remarks	TH OEL
Mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction 64742-65-0	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	ACGIH
ZINC OXIDE, RESPIRABLE FRACTION 1314-13-2	**Value type**	Time Weighted Average (TWA):
	mg/m³	2
	Remarks	ACGIH
ZINC OXIDE FUME 1314-13-2	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	TH OEL
ZINC OXIDE, RESPIRABLE FRACTION 1314-13-2	**Value type**	Short Term Exposure Limit (STEL):
	mg/m³	10
	Remarks	ACGIH
ZINC OXIDE, INHALABLE DUST 1314-13-2	**Value type**	Time Weighted Average (TWA):
	mg/m³	15
	Remarks	TH OEL
ZINC OXIDE, RESPIRABLE DUST 1314-13-2	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	TH OEL

Respiratory protection:
Ensure adequate ventilation.

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 safety glasses with side shields.
Protective eye equipment should conform to EN166.

Body protection:
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:	white paste
Odor:	mild
Odor threshold (CA):	No data available.
pH:	No data available.
Melting point / freezing point:	No data available.
Specific gravity:	0.95 - 1.05
Boiling point:	No data available.
Flash point:	> 180 °C (> 356 °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:	Negligible
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:
Strong oxidizing agents.
Conditions to avoid:
Stable under normal conditions of storage and use.
Hazardous decomposition products:
carbon oxides.

Section 11. Toxicological information

Symptoms of Overexposure**:** None known.

Acute oral toxicity:

Calcium carbonate 471-34-1	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 420 (Acute Oral Toxicity)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
zinc oxide 1314-13-2	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Diboron calcium tetraoxide 13701-64-9	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	not specified
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)

Acute inhalative toxicity:

Calcium carbonate 471-34-1	Value type	LC50
	Value	> 3 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Value type	LC50
	Value	> 5.53 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)
zinc oxide 1314-13-2	Value type	LC50
	Value	> 5.7 mg/l
	Exposure time	4 h
	Species	rat
	Method	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)

Acute dermal toxicity:

Calcium carbonate 471-34-1	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
zinc oxide 1314-13-2	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
Diboron calcium tetraoxide 13701-64-9	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	not specified
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Calcium carbonate 471-34-1	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Result	not irritating
	Exposure time	24 h
	Species	rabbit
	Method	not specified
zinc oxide 1314-13-2	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	Result	mildly irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0	Result	not irritating
	Exposure time	4 h
	Species	rabbit

	Method	EPA OPPTS 870.2500 (Acute Dermal Irritation)

Serious eye damage/irritation:

Calcium carbonate 471-34-1	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
zinc oxide 1314-13-2	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	EPA OPPTS 870.2400 (Acute Eye Irritation)

Respiratory or skin sensitization:

Calcium carbonate 471-34-1	Result	not sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Result	not sensitising
	Test type	Buehler test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
zinc oxide 1314-13-2	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0	Result	sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:

Calcium carbonate 471-34-1	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)
Calcium carbonate 471-34-1	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)
Calcium carbonate 471-34-1	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)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	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)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	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)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
zinc oxide 1314-13-2	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)
zinc oxide 1314-13-2	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)
zinc oxide 1314-13-2	Result	ambiguous
	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)
zinc oxide 1314-13-2	Result	negative
	Type of study / Route of administration	inhalation: aerosol
	Metabolic activation / Exposure time	
	Species	rat
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
zinc oxide 1314-13-2	Result	negative
	Type of study / Route of administration	inhalation: aerosol
	Metabolic activation / Exposure time	
	Species	rat
	Method	OECD Guideline 489 (In Vivo Mammalian Alkaline Comet Assay)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0	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)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0	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)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without

70024-69-0	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0	Result	negative
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Repeated dose toxicity:

Calcium carbonate 471-34-1	Result	NOAEL=1,000 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	48 ddaily
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
zinc oxide 1314-13-2	Result	NOAEL=31.52 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	90 ddaily
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
zinc oxide 1314-13-2	Result	NOAEL=1.5 mg/m3
	Route of application	inhalation
	Exposure time / Frequency of treatment	3 m6 h/d, 5 d/w
	Species	rat
	Method	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
zinc oxide 1314-13-2	Result	NOAEL=1,000 mg/kg
	Route of application	dermal
	Exposure time / Frequency of treatment	90 d6 h/d, daily
	Species	rat
	Method	OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	Result	NOAEL=25 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	M: 28 d / F: 53 ddaily
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	Result	LOAEL=18 mg/kg
	Route of application	oral: feed
	Exposure time / Frequency of treatment	17 weeks
	Species	rat
	Method	OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0	Result	NOAEL=500 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	29 ddaily
	Species	rat
	Method	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.

Ecotoxicity: H411 Toxic to aquatic life with long lasting effects.

Toxicity:

Calcium carbonate 471-34-1	Value type	LC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Calcium carbonate 471-34-1	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)
Calcium carbonate 471-34-1	Value type	EC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	14 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Calcium carbonate 471-34-1	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)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Value type	LC50
	Value	> 5,000 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Value type	EC50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Value type	NOELR
	Value	100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
zinc oxide 1314-13-2	Value type	LC50
	Value	0.142 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Thymallus arcticus
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
	Value type	NOEC
	Value	0.44 mg/l
	Acute Toxicity Study	Fish
	Exposure time	72 d
	Species	Oncorhynchus mykiss
	Method	other guideline:
zinc oxide 1314-13-2	Value type	EC50
	Value	1 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna

	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
zinc oxide 1314-13-2	Value type	NOEC
	Value	0.017 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC50
	Value	0.17 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
zinc oxide 1314-13-2	Value type	IC50
	Value	5.2 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	not specified
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	Value type	LC50
	Value	> 100 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)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	Value type	EC50
	Value	51 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	Value type	EC50
	Value	> 100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	10 - 100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	Value type	IC50
	Value	> 100 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge, domestic
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0	Value type	LC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Cyprinodon variegatus
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0	Value type	EC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0	Value type	EC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
	Value type	NOEC
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Algae

	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0	Value type	EC50
	Value	> 10,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge of a predominantly industrial sewage
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Distillates (petroleum), solvent-dewaxed heavy paraffinic < 3%DMSO 64742-65-0	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	6 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	0 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts 70024-69-0	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	8 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

Bioaccumulative potential / Mobility in soil:

Calcium carbonate 471-34-1	LogPow	-2.12
	Temperature	
	Method	QSAR (Quantitative Structure Activity Relationship)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	Bioconcentration factor (BCF)	> 411 - 1,730
	Exposure time	42 d
	Species	Cyprinus carpio
	Temperature	24 °C
	Method	other guideline:
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	LogPow	> 5
	Temperature	25 °C
	Method	QSAR (Quantitative Structure Activity Relationship)

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:	9
Packing group:	III
Classification code:	M7
Hazard ident. number:	90
UN no.:	3077
Label:	9
Technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)

Railroad transport RID:

Class:	9
Packing group:	III
Classification code:	M7
Hazard ident. number:	90
UN no.:	3077
Label:	9
Technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)

Inland water transport ADN:

Class:	9
Packing group:	III
Classification code:	M7
Hazard ident. number:	90
UN no.:	3077
Label:	9
Technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)

Marine transport IMDG:

Class:	9
Packing group:	III
UN no.:	3077
Label:	9
EmS:	F-A ,S-F
Seawater pollutant:	Marine pollutant
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)

Air transport IATA:

Class:	9
Packing group:	III
Packaging instructions (passenger):	956
Packaging instructions (cargo):	956
UN no.:	3077
Label:	9
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Zinc oxide)

Further information for transport:

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), A197 (IATA), 2.10.2.7 (IMDG), NZ 4.3(10) may be applied, which can result in a deviation from the transport classification for packed goods.

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
IECSC	yes
AIIC	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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Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative. We recommend to use a non-personal email address (e.g. SDS@your_company.com).