Safety Data Sheet

LOCTITE PC 6249 CN

SDS No. : 416607
V001.9
Revision: 02.08.2023
printing date: 13.09.2024

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

Product name:
LOCTITE PC 6249 CN

Other means of identification:
LOCTITE PC 6249 CN

Product code:
IDH1602121

Recommended use of the chemical and restrictions on use

Intended use:
Coating

Manufacturer/Importer/Distributor Representative Company

Henkel Thailand Ltd. The Offices at Centralworld,
35th Floor, 999/9 Rama 1 Rd.,
Kwang Patumwan, Khet Patumwan,
10330 Bangkok

Thailand

Phone: +66 (2209) 8000
Fax-no.: +66 (2209) 8008

E-mail address of person responsible for Safety Data Sheet:
ap-ua-psra.sea@henkel.com

Emergency Telephone for Chemical Accidents:
FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call CHEMTREC: +1 703-741-5970

Section 2. Hazards identification

GHS Classification:

Hazard Class	Hazard Category
Flammable liquids	Category 3
Skin sensitizer	Category 1
Chronic hazards to the aquatic environment	Category 3

GHS label elements:

Hazard pictogram:

Signal word:
Warning

Hazard statement:
H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precaution:

Prevention:
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.
P272 Contaminated work clothing should not be allowed out of the workplace.
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].
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
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
Quartz (SiO2), <1% respirable 14808-60-7	10- 30 %	
4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 98-56-6	10- 30 %	Flammable liquids 3 H226 Skin sensitizer 1B H317 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 2 H411
Aluminium oxide - non fibrous form 1344-28-1	10- 30 %	
Xylene - mixture of isomeres 1330-20-7	1- 10 %	Flammable liquids 3 H226 Acute toxicity 5; Oral H303 Acute toxicity 4; Inhalation H332 Acute toxicity 4; Dermal H312 Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 2B H320 Specific target organ toxicity - single exposure 3 H335 Specific target organ toxicity - repeated exposure 2 H373 Aspiration hazard 1 H304 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 3 H412
ethylbenzene 100-41-4	1- 10 %	Flammable liquids 2 H225 Acute toxicity 5; Oral H303 Acute toxicity 4; Inhalation H332 Serious eye damage/eye irritation 2A H319 Specific target organ toxicity - single exposure 3 H335, H336 Specific target organ toxicity - repeated exposure 2 H373 Aspiration hazard 1 H304 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 3 H412
1-methoxy-2-propanol 107-98-2	1- 10 %	Flammable liquids 3 H226 Acute toxicity 5; Oral H303 Specific target organ toxicity - single exposure 3 H336

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.
If symptoms develop and persist, get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.

Eye contact:
Immediately flush eyes with plenty of water 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:
Foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical:
In case of fire, keep containers cool with water spray.
Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.
Vapors are heavier than air and may travel to ignition sources and flash back.

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

Hazardous combustion products:
Oxides of carbon.
Irritating 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:
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Scrape up spilled material and place in a closed container for disposal.
Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Handling:
Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.
During use and until all vapors are gone: Keep area ventilated - do not smoke; extinguish all flames, pilot lights, and heaters; turn off stoves, electrical tools and appliances, and any other sources of ignition.
Keep container closed.

Storage:
Keep away from heat and direct sunlight.
Store in tightly closed containers. In a cool/well-ventilated area.
Isolate from incompatible substances.
Single trip only, do not reuse container.
Refer to Technical Data Sheet

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

Silica, crystalline, α-quartz, respirable dust 14808-60-7	**Value type**	Time Weighted Average (TWA):
	mg/m³	0.025
	Remarks	TH OEL
Silica, crystalline-α-Quartz, respirable fraction 14808-60-7	**Value type**	Time Weighted Average (TWA):
	mg/m³	0.025
	Remarks	ACGIH
ALUMINUM METAL AND INSOLUBLE COMPOUNDS, RESPIRABLE FRACTION 1344-28-1	**Value type**	Time Weighted Average (TWA):
	mg/m³	1
	Remarks	ACGIH
ALPHA-ALUMINA, RESPIRABLE DUST 1344-28-1	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	TH OEL
Particles (insoluble or poorly soluble) not otherwise specified, respirable particles 1344-28-1	**Value type**	Time Weighted Average (TWA):
	mg/m³	3
	Remarks	ACGIH
Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles 1344-28-1	**Value type**	Time Weighted Average (TWA):
	mg/m³	10
	Remarks	ACGIH
ALPHA-ALUMINA, INHALABLE DUST 1344-28-1	**Value type**	Time Weighted Average (TWA):
	mg/m³	15
	Remarks	TH OEL
XYLENE (O-, M-, P-ISOMERS) 1330-20-7	**Value type**	Time Weighted Average (TWA):
	ppm	100
	Remarks	TH OEL
Xylene (all isomers) 1330-20-7	**Value type**	Time Weighted Average (TWA):
	ppm	20
	Remarks	ACGIH
ETHYL BENZENE 100-41-4	**Value type**	Time Weighted Average (TWA):
	ppm	20
	Remarks	ACGIH
ETHYL BENZENE 100-41-4	**Value type**	Time Weighted Average (TWA):
	ppm	100
	Remarks	TH OEL
1-METHOXY-2-PROPANOL (PGME) 107-98-2	**Value type**	Time Weighted Average (TWA):
	ppm	50
	Remarks	ACGIH
1-METHOXY-2-PROPANOL (PGME) 107-98-2	**Value type**	Short Term Exposure Limit (STEL):
	ppm	100
	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:	grey Liquid
Odor:	Of aromatic solvent
Odor threshold (CA):	No data available.
pH:	Not applicable, Product is non-soluble (in water).
Melting point / freezing point:	Not applicable, Product is a liquid
Specific gravity:	1.749
Boiling point:	120 °C (248 °F)
Flash point:	27.2 °C (80.96 °F) Estimated
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:	Not available.
Vapor density:	3.7
Density:	13.7 - 14.5 lb/gal2.7 g/cm3
Solubility:	Largely insoluble. (20 °C)
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	No data available.

Decomposition temperature:	> 200 °C
Viscosity:	9,000 - 16,000 cPas (; Method: ;; LCT CERT; Certificate of analysis)
VOC content: (2010/75/EC)	10.8 %

Section 10. Stability and reactivity

Reactivity/Incompatible materials:
Oxidizing agents.
Alkalis.
Acids.
Chemical stability:
Stable under recommended storage conditions.
Possibility of hazardous reactions:
Will not occur.
Conditions to avoid:
Keep away from heat, ignition sources and incompatible materials.
Hazardous decomposition products:
Oxides of carbon.
Irritating vapors.

Section 11. Toxicological information

General toxicological information:	Methylethyl ketoxime released during polymerisation of oxime curing RTV silicones is irritating to the respiratory system Methylethyl ketoxime released during polymerisation of oxime curing silicones. It is harmful in contact with skin and is a skin sensitizer.
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

Health Effects:
Skin: May cause allergic skin reaction.
Symptoms of Overexposure**:** None known.

Acute oral toxicity:

Quartz (SiO2), <1% respirable 14808-60-7	Value type	LD50
	Value	> 5,050 mg/kg
	Species	rat
	Method	not specified
4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 98-56-6	Value type	LD50
	Value	5,546 mg/kg
	Species	rat
	Method	not specified
Aluminium oxide - non fibrous form 1344-28-1	Value type	LD50
	Value	> 10,000 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Xylene - mixture of isomeres 1330-20-7	Value type	LD50
	Value	3,523 mg/kg
	Species	rat
	Method	EU Method B.1 (Acute Toxicity (Oral))
Xylene - mixture of isomeres 1330-20-7	Value type	Acute toxicity estimate (ATE)
	Value	3,523 mg/kg
	Species	
	Method	Expert judgement
ethylbenzene 100-41-4	Value type	LD50
	Value	3,500 mg/kg
	Species	rat
	Method	not specified
ethylbenzene 100-41-4	Value type	Acute toxicity estimate (ATE)
	Value	3,500 mg/kg
	Species	
	Method	Expert judgement
1-methoxy-2-propanol 107-98-2	Value type	LD50
	Value	3,739 mg/kg
	Species	rat
	Method	EU Method B.1 (Acute Toxicity (Oral))

Acute inhalative toxicity:

4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 98-56-6	Value type	LC50
	Value	> 32.03 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)
Xylene - mixture of isomeres 1330-20-7	Value type	LC50
	Value	11 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified
Xylene - mixture of isomeres 1330-20-7	Value type	Acute toxicity estimate (ATE)
	Value	11 mg/l
	Exposure time	
	Species	
	Method	Expert judgement
ethylbenzene 100-41-4	Value type	LC50
	Value	17.4 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified
ethylbenzene 100-41-4	Value type	Acute toxicity estimate (ATE)
	Value	17.4 mg/l
	Exposure time	
	Species	
	Method	Expert judgement
1-methoxy-2-propanol 107-98-2	Value type	LC50
	Value	55 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified

Acute dermal toxicity:

Quartz (SiO2), <1% respirable 14808-60-7	Value type	LD50
	Value	> 2,000 mg/kg
	Species	not specified
	Method	not specified
4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 98-56-6	Value type	LD50
	Value	> 3,300 mg/kg
	Species	rabbit
	Method	not specified
Xylene - mixture of isomeres 1330-20-7	Value type	LD50
	Value	1,700 mg/kg
	Species	rabbit
	Method	not specified
Xylene - mixture of isomeres 1330-20-7	Value type	Acute toxicity estimate (ATE)
	Value	1,700 mg/kg
	Species	
	Method	Expert judgement
ethylbenzene 100-41-4	Value type	LD50
	Value	15,433 mg/kg
	Species	rabbit
	Method	not specified
ethylbenzene 100-41-4	Value type	Acute toxicity estimate (ATE)
	Value	15,433 mg/kg
	Species	
	Method	Expert judgement
1-methoxy-2-propanol 107-98-2	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	EU Method B.3 (Acute Toxicity (Dermal)

Skin corrosion/irritation:

4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene	Result	not irritating
	Exposure time	24 h

98-56-6	Species	rabbit
	Method	Patch Test
Aluminium oxide - non fibrous form 1344-28-1	Result	not irritating
	Exposure time	24 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Xylene - mixture of isomeres 1330-20-7	Result	moderately irritating
	Exposure time	
	Species	rabbit
	Method	not specified
ethylbenzene 100-41-4	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	Expert judgement
1-methoxy-2-propanol 107-98-2	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion)

Serious eye damage/irritation:

4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 98-56-6	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Aluminium oxide - non fibrous form 1344-28-1	Result	slightly irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Xylene - mixture of isomeres 1330-20-7	Result	slightly irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
ethylbenzene 100-41-4	Result	irritating
	Exposure time	
	Species	human
	Method	Weight of evidence
1-methoxy-2-propanol 107-98-2	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	EU Method B.5 (Acute Toxicity: Eye Irritation / Corrosion)

Respiratory or skin sensitization:

4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 98-56-6	Result	sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Aluminium oxide - non fibrous form 1344-28-1	Result	not sensitising
	Test type	Draize Test
	Species	guinea pig
	Method	Landsteiner & Jacobs Method
Xylene - mixture of isomeres 1330-20-7	Result	not sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
1-methoxy-2-propanol 107-98-2	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	EU Method B.6 (Skin Sensitisation)

Germ cell mutagenicity:

4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 98-56-6	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)
4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 98-56-6	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	
4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 98-56-6	Result	negative
	Type of study / Route of administration	in vitro mammalian cell transformation assay
	Metabolic activation / Exposure time	with and without
	Method	
4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 98-56-6	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	rat
	Method	not specified
Aluminium oxide - non fibrous form 1344-28-1	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Aluminium oxide - non fibrous form 1344-28-1	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	rat
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Xylene - mixture of isomeres 1330-20-7	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)
Xylene - mixture of isomeres 1330-20-7	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)
Xylene - mixture of isomeres 1330-20-7	Result	negative
	Type of study / Route of administration	sister chromatid exchange assay in mammalian cells
	Metabolic activation / Exposure time	with and without
	Method	EU Method B.19 (Sister Chromatid Exchange Assay In Vitro)
Xylene - mixture of isomeres 1330-20-7	Result	negative
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	rat
	Method	OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)
ethylbenzene 100-41-4	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)
ethylbenzene 100-41-4	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
ethylbenzene 100-41-4	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)
ethylbenzene 100-41-4	Result	negative
	Type of study / Route of administration	sister chromatid exchange assay in mammalian cells
	Metabolic activation / Exposure time	with and without
	Method	not specified
ethylbenzene 100-41-4	Result	negative
	Type of study / Route of administration	oral: gavage

	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
ethylbenzene 100-41-4	Result	negative
	Type of study / Route of administration	inhalation
	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)
1-methoxy-2-propanol 107-98-2	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)
1-methoxy-2-propanol 107-98-2	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)
1-methoxy-2-propanol 107-98-2	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)
1-methoxy-2-propanol 107-98-2	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:

4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 98-56-6	Result	NOAEL=40 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	3 mdaily
	Species	rat
	Method	not specified
4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 98-56-6	Result	NOAEL=>= 5.5 mg/m3
	Route of application	inhalation
	Exposure time / Frequency of treatment	4 m24 h/d
	Species	rat
	Method	not specified
Aluminium oxide - non fibrous form 1344-28-1	Result	
	Route of application	inhalation: dust
	Exposure time / Frequency of treatment	
	Species	rat
	Method	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Xylene - mixture of isomeres 1330-20-7	Result	NOAEL=150 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)
Xylene - mixture of isomeres 1330-20-7	Result	LOAEL=150 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)
ethylbenzene 100-41-4	Result	NOAEL=75 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	28 ddaily
	Species	rat
	Method	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
ethylbenzene 100-41-4	Result	
	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	4 w6 h/d, 5 d/w
	Species	mouse
	Method	equivalent or similar to OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
1-methoxy-2-propanol 107-98-2	Result	NOAEL=1000 ppm
	Route of application	inhalation
	Exposure time / Frequency of treatment	13 weeks6 hours/day; 5 days/week
	Species	rat
	Method	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
1-methoxy-2-propanol 107-98-2	Result	NOAEL=919 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	35 d5 d/w
	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: H412 Harmful to aquatic life with long lasting effects.

Toxicity:

Quartz (SiO2), <1% respirable 14808-60-7	Value type	LC50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	not specified
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Quartz (SiO2), <1% respirable 14808-60-7	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)
Quartz (SiO2), <1% respirable 14808-60-7	Value type	EC50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	not specified
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Quartz (SiO2), <1% respirable 14808-60-7	Value type	EC0
	Value	> 1,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	not specified
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 98-56-6	Value type	NOEC
	Value	0.54 mg/l
	Acute Toxicity Study	Fish
	Exposure time	
	Species	Pimephales promelas
	Method	OECD Guideline 210 (fish early lite stage toxicity test)
	Value type	LC50
	Value	3 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Danio rerio
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 98-56-6	Value type	EC50
	Value	2 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 98-56-6	Value type	NOEC
	Value	0.41 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 98-56-6	Value type	EC50
	Value	103.6 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge, domestic
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Aluminium oxide - non fibrous form 1344-28-1	Value type	LC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Salmo trutta
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Aluminium oxide - non fibrous form 1344-28-1	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)
Aluminium oxide - non fibrous form 1344-28-1	Value type	NOEC
	Value	Toxicity > Water solubility
	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	Toxicity > Water solubility
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Aluminium oxide - non fibrous form 1344-28-1	Value type	EC0
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Bacteria
	Exposure time	
	Species	not specified
	Method	not specified
Xylene - mixture of isomers 1330-20-7	Value type	LC50
	Value	2.6 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	> 1.3 mg/l
	Acute Toxicity Study	Fish
	Exposure time	56 d
	Species	Oncorhynchus mykiss
	Method	other guideline:
Xylene - mixture of isomers 1330-20-7	Value type	EC50
	Value	3.1 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Xylene - mixture of isomers 1330-20-7	Value type	EC50
	Value	4.36 mg/l
	Acute Toxicity Study	Algae
	Exposure time	73 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC10
	Value	1.9 mg/l
	Acute Toxicity Study	Algae
	Exposure time	73 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
ethylbenzene 100-41-4	Value type	LC50
	Value	4.2 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
ethylbenzene 100-41-4	Value type	EC50
	Value	> 1.8 - 2.4 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
ethylbenzene 100-41-4	Value type	EC50
	Value	7.7 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Skeletonema costatum
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	4.5 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h

	Species	Skeletonema costatum
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
ethylbenzene 100-41-4	Value type	EC50
	Value	> 152 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	not specified
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
1-methoxy-2-propanol 107-98-2	Value type	LC50
	Value	20,800 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
1-methoxy-2-propanol 107-98-2	Value type	EC50
	Value	23,300 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1-methoxy-2-propanol 107-98-2	Value type	EC50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Algae
	Exposure time	7 d
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
1-methoxy-2-propanol 107-98-2	Value type	EC0
	Value	> 1,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 98-56-6	Result	
	Route of application	aerobic
	Degradability	19.2 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Xylene - mixture of isomeres 1330-20-7	Result	readily biodegradable
	Route of application	aerobic
	Degradability	90 %
	Method	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
ethylbenzene 100-41-4	Result	readily biodegradable
	Route of application	aerobic
	Degradability	69 %
	Method	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
1-methoxy-2-propanol 107-98-2	Result	readily biodegradable
	Route of application	aerobic
	Degradability	90 %
	Method	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)

Bioaccumulative potential / Mobility in soil:

4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene 98-56-6	LogPow	3.7
	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Xylene - mixture of isomeres 1330-20-7	Bioconcentration factor (BCF)	25.9
	Exposure time	56 d
	Species	Oncorhynchus mykiss
	Temperature	
	Method	not specified
Xylene - mixture of isomeres 1330-20-7	LogPow	3.16
	Temperature	20 °C
	Method	not specified

ethylbenzene 100-41-4	Bioconcentration factor (BCF)	1
	Exposure time	42 d
	Species	Oncorhynchus kisutch
	Temperature	10 °C
	Method	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
ethylbenzene 100-41-4	LogPow	3.6
	Temperature	20 °C
	Method	EU Method A.8 (Partition Coefficient)
1-methoxy-2-propanol 107-98-2	LogPow	-0.49
	Temperature	
	Method	not specified

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:	III
Classification code:	F1
Hazard ident. number:	30
UN no.:	1263
Label:	3
Technical name:	PAINT

Railroad transport RID:

Class:	3
Packing group:	III
Classification code:	F1
Hazard ident. number:	30
UN no.:	1263
Label:	3
Technical name:	PAINT

Inland water transport ADN:

Class:	3
Packing group:	III
Classification code:	F1
Hazard ident. number:	30
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:	-
Proper shipping name:	PAINT

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

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
AIIC	yes
TCSI	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.

Dear Customer,

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).