



Safety Data Sheet according to Singapore Standard SS 586.

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LOCTITE PC 7255 GN Part B

SDS No. : 431278

V001.8

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

Product name: LOCTITE PC 7255 GN Part B

Other means of identification: LOCTITE PC 7255 GN PART B

Product code: IDH2479399

Recommended use of the chemical and restrictions on use

Intended use: Epoxy Hardener

Manufacturer/Importer/Distributor Representative Company

Henkel Singapore Pte Ltd

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Emergency Telephone for Chemical Accidents: FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call: +65 6424 7016

Section 2. Hazards identification

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Route of Exposure</u>	<u>Target organ</u>
Acute toxicity	Category 4	Oral	
Skin corrosion/irritation	Category 1B		
Serious eye damage/eye irritation	Category 1		
Skin sensitizer	Category 1		
Specific target organ toxicity - repeated exposure	Category 2	Oral	Liver
			Muscles
Chronic hazards to the aquatic environment	Category 2		

GHS label elements:

Hazard pictogram:



Signal word:

Danger

Hazard statement:	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H373 May cause damage to organs through prolonged or repeated exposure if swallowed. H411 Toxic to aquatic life with long lasting effects.
Precaution:	
Prevention:	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. 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:	P301+P310+P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P314 Get medical advice/attention if you feel unwell. 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
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Substance or Mixture:

Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
Silicon carbide 409-21-2	30- 60 %	
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	10- 30 %	Acute toxicity 4; Oral H302 Skin corrosion 1B H314 Serious eye damage/eye irritation 1 H318 Skin Sensitization 1 H317 Target Organ Systemic Toxicant - Repeated exposure 2; Oral H373
Natural compound of quartz and kaolinite 1020665-14-8	10- 30 %	
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	1- 10 %	Acute toxicity 3; Oral H301 Skin corrosion 1C H314 Serious eye damage/eye irritation 1 H318 Skin Sensitization 1 H317 Target Organ Systemic Toxicant - Repeated exposure 2 H373
benzyl alcohol 100-51-6	1- 10 %	Acute toxicity 4; Oral H302 Serious eye irritation 2 H319 Skin Sensitization 1B H317
4-tert-butylphenol 98-54-4	1- 10 %	Skin irritation 2 H315 Serious eye damage/eye irritation 1 H318 Reproductive toxicant. 2 H361 Chronic hazards to the aquatic environment 1 H410
m-Phenylenebis(methylamine) 1477-55-0	1- 10 %	Acute toxicity 4; Oral H302 Acute toxicity 4; Inhalation H332 Skin corrosion 1B H314 Serious eye damage/eye irritation 1 H318 Skin Sensitization 1B H317
salicylic acid 69-72-7	0.1- 1 %	Acute toxicity 4; Oral H302 Serious eye damage/eye irritation 1 H318 Reproductive toxicant. 2 H361
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	0.1- 1 %	Acute toxicity 4; Inhalation H332 Serious eye damage/eye irritation 1 H318 Skin Sensitization 1A H317 Target Organ Systemic Toxicant - Repeated exposure 2; Inhalation H373
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine 25513-64-8	0.1- 1 %	Acute toxicity 4; Oral H302 Skin corrosion 1A

		H314 Serious eye damage/eye irritation 1 H318 Skin Sensitization 1A H317
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	0.1- 1 %	Acute toxicity 4; Oral H302 Acute toxicity 2; Inhalation H330 Acute toxicity 3; Dermal H311 Skin corrosion 1A H314 Serious eye damage/eye irritation 1 H318 Target Organ Systemic Toxicant - Repeated exposure 2 H373 Chronic hazards to the aquatic environment 2 H411

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:	water, carbon dioxide, foam, powder
Specific hazards arising from the chemical:	Do not expose to direct heat. See section 10.
Special protection equipment and precautions for firefighters:	Wear self-contained breathing apparatus. Wear protective equipment.
Hazardous combustion products:	Oxides of carbon.
Additional fire fighting advice:	In case of fire, keep containers cool with water spray.

Section 6. Accidental release measures

Personal precautions:	Ensure adequate ventilation. Avoid skin and eye contact. Wear protective equipment. See advice in section 8
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	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:

Avoid skin and eye contact.
Use only in well-ventilated areas.
Gloves and safety glasses should be worn
See advice in section 8

Storage:

Store in sealed original container. Store in a cool, well-ventilated place.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

Particles (insoluble or poorly soluble) not otherwise specified, respirable particles 409-21-2	Value type	Time Weighted Average (TWA):
	mg/m³	3
	Remarks	ACGIH
Silicon carbide 409-21-2	Value type	Time Weighted Average (TWA):
	mg/m³	10
	Remarks	SG OEL
Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles 409-21-2	Value type	Time Weighted Average (TWA):
	mg/m³	10
	Remarks	ACGIH
Silicon carbide, nonfibrous, respirable fraction 409-21-2	Value type	Time Weighted Average (TWA):
	mg/m³	3
	Remarks	ACGIH The value is for particulate matter containing no asbestos and <1% crystalline silica.
Silicon carbide, nonfibrous, inhalable fraction 409-21-2	Value type	Time Weighted Average (TWA):
	mg/m³	10
	Remarks	ACGIH The value is for particulate matter containing no asbestos and <1% crystalline silica.
Silicon carbide, fibrous (including whiskers) 409-21-2	Value type	Time Weighted Average (TWA):
	mg/m³	
	Remarks	ACGIH
SILICA-AMORPHOUS: PRECIPITATED SILICA SILICA-AMORPHOUS: SILICA GEL 1020665-14-8	Value type	Time Weighted Average (TWA):
	mg/m³	10
	Remarks	SG OEL
m-Xylene α, α'-diamine 1477-55-0	Value type	Short Term Exposure Limit (STEL):
	mg/m³	0.1
	Remarks	SG OEL
m-Xylene α,α'-diamine 1477-55-0	Value type	Ceiling Limit Value:
	ppm	0.018
	Remarks	ACGIH
m-Xylene α,α'-diamine 1477-55-0	Value type	Skin designation:
	Remarks	ACGIH Danger of cutaneous absorption

Respiratory protection:

Ensure adequate ventilation.
Do not inhale vapors and fumes.
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:	Blue liquid
Odor:	Ammoniacal
Odor threshold (CA):	No data available.
pH:(Concentration: 100 g/l)	11.3
Melting point / freezing point:	Not applicable, Product is a liquid
Specific gravity:	No data available.
Boiling point:	> 180 °C (> 356 °F)
Flash point:	> 100 °C (> 212 °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 method / method unknown; 50 °C (122 °F); 21 °C (69.8 °F))	< 700 mbar < 13.3 hPa
Vapor density:	> 1
Density:	1.47 g/cm ³
Solubility:	Insoluble (20 °C)
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
VOC content: (2010/75/EC)	< 3 %

Section 10. Stability and reactivity

Reactivity/Incompatible materials:	Reaction with strong acids.
Chemical stability:	Stable under recommended storage conditions.
Conditions to avoid:	Stable under normal conditions of storage and use. Avoid contact with acids and oxidizing agents.
Hazardous decomposition	carbon oxides.

products:

Section 11. Toxicological information

Oral toxicity:	Acute toxicity estimate (ATE) : 916.68 mg/kg Method: Calculation method
Inhalative toxicity:	Acute toxicity estimate (ATE) : > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Dermal toxicity:	Acute toxicity estimate (ATE) : > 2,000 mg/kg Method: Calculation method

Symptoms of Overexposure: Causes burns.
INGESTION: Nausea, vomiting, diarrhea, abdominal pain.

SKIN: Rash, Urticaria.

Acute oral toxicity:

Silicon carbide 409-21-2	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 423 (Acute Oral toxicity)
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Value type	LD50
	Value	380 mg/kg
	Species	rat
	Method	EPA OPP 81-1 (Acute Oral Toxicity)
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	Value type	LD50
	Value	300 mg/kg
	Species	rat
	Method	OECD Guideline 423 (Acute Oral toxicity)
benzyl alcohol 100-51-6	Value type	Acute toxicity estimate (ATE)
	Value	1,200 mg/kg
	Species	
	Method	Expert judgement
4-tert-butylphenol 98-54-4	Value type	LD50
	Value	4,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
m-Phenylenebis(methylamine) 1477-55-0	Value type	LD50
	Value	930 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
salicylic acid 69-72-7	Value type	LD50
	Value	891 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
N-(3-(Trimethoxysilyl)propyl)ethylenedi amine 1760-24-3	Value type	LD50
	Value	2,295 mg/kg
	Species	rat
	Method	EPA OPPTS 870.1100 (Acute Oral Toxicity)
2,2,4(or 2,4,4)-trimethylhexane- 1,6-diamine 25513-64-8	Value type	LD50
	Value	910 mg/kg
	Species	rat
	Method	not specified
2,2'-dimethyl-4,4'- methylenebis(cyclohexylamine) 6864-37-5	Value type	LD50
	Value	320 - 460 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
2,2'-dimethyl-4,4'- methylenebis(cyclohexylamine) 6864-37-5	Value type	Acute toxicity estimate (ATE)
	Value	320 mg/kg
	Species	
	Method	Expert judgement

Acute inhalative toxicity:

benzyl alcohol 100-51-6	Value type	LC50
	Value	> 5.4 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)
4-tert-butylphenol 98-54-4	Value type	LC50
	Value	> 5.6 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified
m-Phenylenebis(methylamine) 1477-55-0	Value type	LC50
	Value	1.34 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)
N-(3-(Trimethoxysilyl)propyl)ethylenedi- amine 1760-24-3	Value type	LC50
	Value	1.49 - 2.44 mg/l
	Exposure time	4 h
	Species	rat
	Method	EPA OPPTS 870.1300 (Acute inhalation toxicity)
N-(3-(Trimethoxysilyl)propyl)ethylenedi- amine 1760-24-3	Value type	Acute toxicity estimate (ATE)
	Value	1.49 mg/l
	Exposure time	
	Species	
	Method	Expert judgement
2,2'-dimethyl-4,4'- methylenebis(cyclohexylamine) 6864-37-5	Value type	LC50
	Value	0.42 mg/l
	Exposure time	4 h
	Species	rat
	Method	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)

Acute dermal toxicity:

Silicon carbide 409-21-2	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
4,4'- Methylenebis(cyclohexylamine) 1761-71-3	Value type	LD50
	Value	2,110 mg/kg
	Species	rabbit
	Method	not specified
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	Value type	Acute toxicity estimate (ATE)
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	Expert judgement
benzyl alcohol 100-51-6	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	not specified
4-tert-butylphenol 98-54-4	Value type	LD50
	Value	> 16,000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
m-Phenylenebis(methylamine) 1477-55-0	Value type	LD50
	Value	> 3,100 mg/kg
	Species	rat
	Method	not specified
salicylic acid 69-72-7	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
N-(3-(Trimethoxysilyl)propyl)ethylenedi- amine	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat

1760-24-3	Method	EPA OPPTS 870.1200 (Acute Dermal Toxicity)
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	Value type	LD50
	Value	> 200 - < 400 mg/kg
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	Value type	Acute toxicity estimate (ATE)
	Value	201 mg/kg
	Species	
	Method	Expert judgement

Skin corrosion/irritation:

Silicon carbide 409-21-2	Result	not irritating
	Exposure time	24 h
	Species	rat
	Method	other guideline:
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Result	corrosive
	Exposure time	2.75 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	Result	Category 1C (corrosive)
	Exposure time	
	Species	Corrositex Biobarrier Membrane (reconstituted collagen matrix)
	Method	OECD Guideline 435 (In Vitro Membrane Barrier Test Method for Skin Corrosion)
benzyl alcohol 100-51-6	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
4-tert-butylphenol 98-54-4	Result	irritating
	Exposure time	5 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
salicylic acid 69-72-7	Result	slightly irritating
	Exposure time	
	Species	rabbit
	Method	not specified
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	Result	mildly irritating
	Exposure time	4 h
	Species	rabbit
	Method	EPA OPPTS 870.2500 (Acute Dermal Irritation)
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine 25513-64-8	Result	Sub-Category 1A (corrosive)
	Exposure time	3 min
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	Result	corrosive
	Exposure time	3 min
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Result	Category 1 (irreversible effects on the eye)
	Exposure time	
	Species	rabbit
	Method	not specified
benzyl alcohol 100-51-6	Result	irritating
	Exposure time	24 h
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
4-tert-butylphenol 98-54-4	Result	Category 1 (irreversible effects on the eye)
	Exposure time	1 s
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
salicylic acid 69-72-7	Result	highly irritating
	Exposure time	
	Species	rabbit
	Method	Draize Test
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	Result	Category 1 (irreversible effects on the eye)
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine 25513-64-8	Result	corrosive
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	Result	corrosive
	Exposure time	
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	Result	sensitising
	Test type	Buehler test
	Species	guinea pig
	Method	Buehler test
4-tert-butylphenol 98-54-4	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
m-Phenylenebis(methylamine) 1477-55-0	Result	Sub-Category 1B (sensitising)
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
salicylic acid 69-72-7	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)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	Result	Sub-Category 1A (sensitising)
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine 25513-64-8	Result	Sub-Category 1A (sensitising)
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Silicon carbide 409-21-2	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)
benzyl alcohol 100-51-6	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
benzyl alcohol 100-51-6	Result	negative
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
4-tert-butylphenol 98-54-4	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
4-tert-butylphenol 98-54-4	Result	negative
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
m-Phenylenebis(methylamine) 1477-55-0	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	not specified
m-Phenylenebis(methylamine) 1477-55-0	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	not specified
salicylic acid 69-72-7	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
salicylic acid 69-72-7	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)
salicylic acid 69-72-7	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)
salicylic acid 69-72-7	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	mouse
	Method	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
2,2,4(or 2,4,4)-trimethylhexane- 1,6-diamine 25513-64-8	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	EU Method B.13/14 (Mutagenicity)
2,2,4(or 2,4,4)-trimethylhexane- 1,6-diamine 25513-64-8	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)
2,2,4(or 2,4,4)-trimethylhexane- 1,6-diamine 25513-64-8	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)
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine 25513-64-8	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine 25513-64-8	Result	negative
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	hamster, Chinese
	Method	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	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)
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	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)
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	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:

4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Result	NOAEL=15 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	M: 36 d / F: 48-52 ddaily
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	Result	NOAEL=15 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)
benzyl alcohol 100-51-6	Result	NOAEL=400 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	13 weeksonce daily, 5 days/week
	Species	rat
	Method	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
4-tert-butylphenol 98-54-4	Result	LOAEL=>= 200 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	daily
	Species	rat
	Method	not specified
m-Phenylenebis(methylamine) 1477-55-0	Result	LOAEL=>= 600 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	28 daysdaily
	Species	rat
	Method	Guidelines for 28-Day Repeat Dose Toxicity Test (Japan)
salicylic acid 69-72-7	Result	NOAEL=50 mg/kg
	Route of application	oral: feed
	Exposure time / Frequency of treatment	2 yearsdaily
	Species	rat
	Method	not specified
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine 25513-64-8	Result	NOAEL=10 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	13 weeksdaily
	Species	rat
	Method	FDA Guideline
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	Result	NOAEL=2.5 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	3 m5 d/w
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	Result	NOAEL=12 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)

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:

4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Value type	LC50
	Value	> 100 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Leuciscus idus
	Method	DIN 38412-15
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Value type	EC50
	Value	7.07 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Value type	EC50
	Value	> 140 - 200 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	DIN 38412-09
	Value type	EC10
	Value	100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	DIN 38412-09
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Value type	EC20
	Value	> 1,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge, industrial
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Natural compound of quartz and kaolinite 1020665-14-8	Value type	LC50
	Value	2,994 mg/l
	Acute Toxicity Study	Fish
	Exposure time	
	Species	
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Natural compound of quartz and kaolinite 1020665-14-8	Value type	EC50
	Value	2,994 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	
	Species	
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Natural compound of quartz and kaolinite 1020665-14-8	Value type	EC50
	Value	515 mg/l
	Acute Toxicity Study	Algae
	Exposure time	
	Species	
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Natural compound of quartz and kaolinite 1020665-14-8	Value type	EC0
	Value	2,994 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	
	Species	
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	Value type	LC50
	Value	96 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Poecilia reticulata
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	Value type	EC50
	Value	15.4 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna

	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	Value type	EC10
	Value	1.2 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	EU Method C.3 (Algal Inhibition test)
	Value type	EC50
	Value	43.94 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	EU Method C.3 (Algal Inhibition test)
benzyl alcohol 100-51-6	Value type	LC50
	Value	460 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	EPA OPP 72-1 (Fish Acute Toxicity Test)
benzyl alcohol 100-51-6	Value type	EC50
	Value	230 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
benzyl alcohol 100-51-6	Value type	EC50
	Value	770 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	310 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
benzyl alcohol 100-51-6	Value type	EC10
	Value	658 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	17 h
	Species	Pseudomonas putida
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
4-tert-butylphenol 98-54-4	Value type	LC50
	Value	5.14 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	EU Method C.1 (Acute Toxicity for Fish)
	Value type	NOEC
	Value	> 0.01 - 0.1 mg/l
	Acute Toxicity Study	Fish
	Exposure time	128 d
	Species	Pimephales promelas
	Method	OECD Guideline 210 (fish early life stage toxicity test)
4-tert-butylphenol 98-54-4	Value type	EC50
	Value	4.8 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
4-tert-butylphenol 98-54-4	Value type	EC50
	Value	11.2 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	DIN 38412-09
	Value type	NOEC
	Value	0.32 mg/l
	Acute Toxicity Study	Algae

	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	DIN 38412-09
4-tert-butylphenol 98-54-4	Value type	EC50
	Value	> 10 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge of a predominantly domestic sewage
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
m-Phenylenebis(methylamine) 1477-55-0	Value type	LC50
	Value	87.6 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oryzias latipes
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
m-Phenylenebis(methylamine) 1477-55-0	Value type	EC50
	Value	15.2 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
m-Phenylenebis(methylamine) 1477-55-0	Value type	EC50
	Value	33.3 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	NOEC
	Value	22.9 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)
m-Phenylenebis(methylamine) 1477-55-0	Value type	EC50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	activated sludge
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
salicylic acid 69-72-7	Value type	LC50
	Value	1,370 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
salicylic acid 69-72-7	Value type	EC50
	Value	870 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
salicylic acid 69-72-7	Value type	EC50
	Value	> 100 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)
salicylic acid 69-72-7	Value type	EC50
	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)
N-(3-(Trimethoxysilyl)propyl)ethylenedi amine 1760-24-3	Value type	LC50
	Value	168 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)

N-(3-(Trimethoxysilyl)propyl)ethylenedi- amine 1760-24-3	Value type	EC50
	Value	87.4 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
N-(3-(Trimethoxysilyl)propyl)ethylenedi- amine 1760-24-3	Value type	EC50
	Value	8.8 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	3.1 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
N-(3-(Trimethoxysilyl)propyl)ethylenedi- amine 1760-24-3	Value type	EC50
	Value	435 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
2,2,4(or 2,4,4)-trimethylhexane- 1,6-diamine 25513-64-8	Value type	LC50
	Value	174 mg/l
	Acute Toxicity Study	Fish
	Exposure time	48 h
	Species	Leuciscus idus
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
	Value type	NOEC
	Value	10.9 mg/l
	Acute Toxicity Study	Fish
	Exposure time	30 d
	Species	Danio rerio
	Method	OECD Guideline 210 (fish early life stage toxicity test)
2,2,4(or 2,4,4)-trimethylhexane- 1,6-diamine 25513-64-8	Value type	EC50
	Value	31.5 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	24 h
	Species	Daphnia magna
	Method	DIN 38412, part 11
2,2,4(or 2,4,4)-trimethylhexane- 1,6-diamine 25513-64-8	Value type	EC50
	Value	43.5 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	16 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,2,4(or 2,4,4)-trimethylhexane- 1,6-diamine 25513-64-8	Value type	EC10
	Value	72 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	16 h
	Species	Pseudomonas putida
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
2,2'-dimethyl-4,4'- methylenebis(cyclohexylamine) 6864-37-5	Value type	LC50
	Value	22.4 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oryzias latipes
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
2,2'-dimethyl-4,4'- methylenebis(cyclohexylamine) 6864-37-5	Value type	EC50
	Value	4.57 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h

2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
	Value type	EC50
	Value	7.9 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	not specified
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	0.13 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	not specified
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	Value type	EC20
	Value	160 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	activated sludge, domestic
	Method	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)

Persistence and degradability:

4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	0 %
	Method	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
benzyl alcohol 100-51-6	Result	readily biodegradable
	Route of application	aerobic
	Degradability	92 - 96 %
	Method	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
4-tert-butylphenol 98-54-4	Result	readily biodegradable, but failing 10-day window
	Route of application	aerobic
	Degradability	60 %
	Method	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
m-Phenylenebis(methylamine) 1477-55-0	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	49 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
salicylic acid 69-72-7	Result	readily biodegradable
	Route of application	aerobic
	Degradability	88.1 %
	Method	EU Method C.4-F (Determination of the "Ready" Biodegradability MITI Test)
	Result	inherently biodegradable
	Route of application	aerobic
	Degradability	100 %
	Method	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	39 %
	Method	EU Method C.4-A (Determination of the "Ready" Biodegradability Dissolved Organic Carbon (DOC) Die-Away Test)
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine 25513-64-8	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	7 %
	Method	EU Method C.4-A (Determination of the "Ready" Biodegradability Dissolved Organic Carbon (DOC) Die-Away Test)
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	Result	not inherently biodegradable
	Route of application	aerobic
	Degradability	0 %
	Method	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	0 %

	Method	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
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Bioaccumulative potential / Mobility in soil:

4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Bioconcentration factor (BCF)	< 60
	Exposure time	60 d
	Species	Cyprinus carpio
	Temperature	24 °C
	Method	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	LogPow	2.2
	Temperature	23 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	Bioconcentration factor (BCF)	18 - 219
	Exposure time	56 d
	Species	Cyprinus carpio
	Temperature	
	Method	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	LogPow	2.68
	Temperature	21 °C
	Method	EU Method A.8 (Partition Coefficient)
benzyl alcohol 100-51-6	LogPow	1.05
	Temperature	20 °C
	Method	EU Method A.8 (Partition Coefficient)
4-tert-butylphenol 98-54-4	Bioconcentration factor (BCF)	20 - 48
	Exposure time	56 d
	Species	Cyprinus carpio
	Temperature	
	Method	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
4-tert-butylphenol 98-54-4	LogPow	3
	Temperature	23 °C
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
m-Phenylenebis(methylamine) 1477-55-0	LogPow	0.18
	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
salicylic acid 69-72-7	LogPow	2.26
	Temperature	20 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	LogPow	-1.67
	Temperature	
	Method	not specified
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine 25513-64-8	LogPow	-0.3
	Temperature	25 °C
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	Bioconcentration factor (BCF)	> 6 - < 60
	Exposure time	60 d
	Species	Cyprinus carpio
	Temperature	
	Method	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) 6864-37-5	LogPow	1.8 - 2.3
	Temperature	23 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

Section 13. Disposal considerations**Product****Method of disposal:**

Dispose of in accordance with local and national regulations.

Packaging

Disposal of uncleaned packages: Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Section 14. Transport information

Road transport ADR:

Class:	8
Packing group:	II
Classification code:	C7
Hazard ident. number:	80
UN no.:	2735
Label:	8
Technical name:	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4-methylenebis-cyclohexylamine,Formaldehyde, polymer with benzenamine, hydrogenated)

Railroad transport RID:

Class:	8
Packing group:	II
Classification code:	C7
Hazard ident. number:	80
UN no.:	2735
Label:	8
Technical name:	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4-methylenebis-cyclohexylamine,Formaldehyde, polymer with benzenamine, hydrogenated)

Inland water transport ADN:

Class:	8
Packing group:	II
Classification code:	C7
Hazard ident. number:	80
UN no.:	2735
Label:	8
Technical name:	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4-methylenebis-cyclohexylamine,Formaldehyde, polymer with benzenamine, hydrogenated)

Marine transport IMDG:

Class:	8
Packing group:	II
UN no.:	2735
Label:	8
EmS:	F-A ,S-B
Seawater pollutant:	Marine pollutant
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4-methylenebis-cyclohexylamine,Formaldehyde, polymer with benzenamine, hydrogenated,4-tert-butylphenol)

Air transport IATA:

Class:	8
Packing group:	II
Packaging instructions (passenger):	851
Packaging instructions (cargo):	855
UN no.:	2735
Label:	8
Proper shipping name:	Amines, liquid, corrosive, n.o.s. (4,4-methylenebis-cyclohexylamine, Formaldehyde, polymer with benzenamine, hydrogenated)

Section 15. Regulatory information

Regulatory Information: Workplace Safety And Health Act (Chapter 354A, Section 40B) Workplace Safety And Health (Approved Codes of Practice) Notification 2020.
Workplace Safety And Health Act (Chapter 354A, Section 65) Workplace Safety And Health (General Provisions) (Amendment No.2) Regulations 2024

Global inventory status:

Regulatory list	Notification
TCSI	yes
TSCA	yes
DSL	yes
ENCS (JP)	yes
ISHL (JP)	yes
KECI (KR)	yes
PICCS (PH)	yes
IECSC	yes

Section 16. Other information

Disclaimer:

This Safety Data Sheet has been generated based on Workplace Safety And Health Act (Chapter 354A, Section 40B) Workplace Safety And Health (Approved Codes of Practice) Notification 2020 and Workplace Safety And Health Act (Chapter 354A, Section 65) Workplace Safety And Health (General Provisions) (Amendment No.2) Regulations 2024 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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