Safety Data Sheet

LOCTITE EA 9492 B 20KG EGFD

SDS No. : 204341
V002.14
Revision: 12.01.2025
printing date: 04.11.2026

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

Product name:
LOCTITE EA 9492 B 20KG EGFD

Other means of identification:
LOCTITE EA 9492 B 20KG EGFD

Product code:
IDH569924

Recommended use of the chemical and restrictions on use

Intended use:
Epoxy Hardener

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: +662 209 8008

Section 2. Hazards identification

GHS Classification:

Hazard Class	Hazard Category	Route of Exposure	Target organ
Acute toxicity	Category 2	Inhalation	
Skin corrosion/irritation	Category 1B		
Serious eye damage/eye irritation	Category 1		
Skin sensitizer	Category 1		
Toxic to reproduction	Category 1B		
Specific target organ toxicity - single exposure	Category 3		respiratory tract irritation
Chronic hazards to the aquatic environment	Category 2		

GHS label elements:

Hazard pictogram:



Signal word:
Danger

Hazard statement:
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H330 Fatal if inhaled.
H335 May cause respiratory irritation.
H360 May damage fertility or the unborn child.
H411 Toxic to aquatic life with long lasting effects.

Precaution:

Prevention:
P201 Obtain special instructions before use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
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.
P284 [In case of inadequate ventilation] wear respiratory protection.

Response:
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.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

Storage:
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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
2,2'-iminodiethylamine 111-40-0	30- 60 %	Acute toxicity 4; Oral H302 Acute toxicity 2; Inhalation H330 Acute toxicity 4; Dermal H312 Skin corrosion/irritation 1 H314 Serious eye damage/eye irritation 1 H318 Skin sensitizer 1B H317 Specific target organ toxicity - single exposure 3 H335 Acute hazards to the aquatic environment 3 H402
Talc 14807-96-6	10- 30 %	
m-Phenylenebis(methylamine) 1477-55-0	1- 10 %	Acute toxicity 4; Oral H302 Acute toxicity 4; Inhalation H332 Skin corrosion/irritation 1 H314 Serious eye damage/eye irritation 1 H318 Skin sensitizer 1B H317 Acute hazards to the aquatic environment 3 H402 Chronic hazards to the aquatic environment 3 H412
4,4'-Isopropylidenediphenol 80-05-7	1- 10 %	Acute toxicity 5; Oral H303 Acute toxicity 5; Dermal H313 Serious eye damage/eye irritation 1 H318 Skin sensitizer 1 H317 Toxic to reproduction 1B H360 Specific target organ toxicity - single exposure 3 H335 Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 1 H410
benzyl alcohol 100-51-6	1- 10 %	Acute toxicity 4; Oral H302 Acute toxicity 5; Dermal H313 Serious eye damage/eye irritation 2A H319 Skin sensitizer 1B H317
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	0.1- 1 %	Acute toxicity 5; Oral H303 Acute toxicity 4; Inhalation H332 Skin corrosion/irritation 3 H316 Serious eye damage/eye irritation 1 H318 Skin sensitizer 1A H317 Specific target organ toxicity - repeated exposure 2; Inhalation

		H373 Acute hazards to the aquatic environment 2 H401

Section 4. First aid measures

Inhalation:
Move to fresh air, consult doctor if complaint persists.

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 if necessary.

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

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

Section 5. Fire fighting measures

Suitable extinguishing media:
Carbon dioxide, foam, powder

Improper extinguishing media:
High pressure waterjet

Specific hazards arising from the chemical:
In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

Special protection equipment and precautions for firefighters:
Wear self-contained breathing apparatus.
Wear protective equipment.

Additional fire fighting advice:
In case of fire, keep containers cool with water spray.

Section 6. Accidental release measures

Personal precautions:
Avoid skin and eye contact.
Ensure adequate ventilation.
Wear protective equipment.
See advice in section 8

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

Clean-up methods:
For small spills wipe up with paper towel and place in container for disposal.
For large spills absorb onto inert absorbent material and place in sealed container for disposal.
Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Handling:
Avoid skin and eye contact.
Use only with adequate ventilation.
Gloves and safety glasses should be worn
Do not inhale vapors and fumes.
See advice in section 8

Storage:
Store in sealed original container.
Store in a cool, well-ventilated place.
Refer to Technical Data Sheet.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

DIETHYLENE TRIAMINE 111-40-0	**Value type**	Time Weighted Average (TWA):
	ppm	1
	Remarks	ACGIH
DIETHYLENE TRIAMINE 111-40-0	**Value type**	Time Weighted Average (TWA):
	ppm	1
	Remarks	TH OEL
DIETHYLENE TRIAMINE 111-40-0	**Value type**	Skin designation:
	Remarks	ACGIH Danger of cutaneous absorption
TALC, CONTAINING NO ASBESTOS FIBERS, RESPIRABLE FRACTION 14807-96-6	**Value type**	Time Weighted Average (TWA):
	mg/m³	2
	Remarks	ACGIH The value is for particulate matter containing no asbestos and <1% crystalline silica.
TALC CONTAINING NO ASBESTOS FIBRES, RESPIRABLE DUST 14807-96-6	**Value type**	Time Weighted Average (TWA):
	mg/m³	2
	Remarks	TH 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.
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:	Gray / Grey, Opaque liquid
Odor:	characteristic, Of amine
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:	No data available.
Boiling point:	> 140 °C (> 284 °F)
Flash point:	> 100.0 °C (> 212 °F)
(no method / method unknown)	
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:	< 1.3300000 mbar
(; 50 °C (122 °F); 20 °C (68 °F))	< 1.3300000 mbar
Vapor density:	> 1
Density:	1.5000 - 1.5800 g/cm3
Solubility:	Partially soluble
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	No data available.
Decomposition temperature:	> 200 °C
Viscosity:	20 - 45 mPa.s (Cone and plate; 25 °C (77 °F); Shear gradient: 40 s-1; Method: ;; LCT STM 738; Rheological Data from flow curves)
VOC content:	< 3.00 %
(2010/75/EC)	

Section 10. Stability and reactivity

Reactivity/Incompatible materials:
Reacts with water: generation of heat.
Chemical stability:
Stable under recommended storage conditions.

Conditions to avoid:
Avoid contact with acids and oxidizing agents.
Avoid contact with water.
Hazardous decomposition products:
carbon oxides.

Section 11. Toxicological information

Oral toxicity: Acute toxicity estimate (ATE) : > 2,000 mg/kg
Method: Calculation method

Inhalative toxicity: Acute toxicity estimate (ATE) : 0.18 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.
RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.
SKIN: Rash, Urticaria.

Acute oral toxicity:

2,2'-iminodiethylamine 111-40-0	Value type	LD50
	Value	1,553 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
Talc 14807-96-6	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	OECD Guideline 423 (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)
4,4'-Isopropylidenediphenol 80-05-7	Value type	LD50
	Value	> 2,000 - < 5,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
4,4'-Isopropylidenediphenol 80-05-7	Value type	Acute toxicity estimate (ATE)
	Value	2,500 mg/kg
	Species	
	Method	Expert judgement
benzyl alcohol 100-51-6	Value type	Acute toxicity estimate (ATE)
	Value	1,200 mg/kg
	Species	
	Method	Expert judgement
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	Value type	LD50
	Value	2,295 mg/kg
	Species	rat
	Method	EPA OPPTS 870.1100 (Acute Oral Toxicity)

Acute inhalative toxicity:

2,2'-iminodiethylamine 111-40-0	Value type	LD 50
	Value	> 0.07 - < 0.30 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)
2,2'-iminodiethylamine 111-40-0	Value type	Acute toxicity estimate (ATE)
	Value	0.071 mg/l
	Exposure time	
	Species	
	Method	Expert judgement
Talc 14807-96-6	Value type	LC50
	Value	> 2.1 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)
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)
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)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 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)ethylenediamine 1760-24-3	Value type	Acute toxicity estimate (ATE)
	Value	1.49 mg/l
	Exposure time	
	Species	
	Method	Expert judgement

Acute dermal toxicity:

2,2'-iminodiethylamine 111-40-0	Value type	LD50
	Value	1,045 mg/kg
	Species	rabbit
	Method	not specified
Talc 14807-96-6	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	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
4,4'-Isopropylidenediphenol 80-05-7	Value type	LD50
	Value	3,000 mg/kg
	Species	rabbit
	Method	not specified
benzyl alcohol 100-51-6	Value type	Acute toxicity estimate (ATE)
	Value	2,500 mg/kg
	Species	
	Method	Expert judgement
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	EPA OPPTS 870.1200 (Acute Dermal Toxicity)

Skin corrosion/irritation:

2,2'-iminodiethylamine 111-40-0	Result	corrosive
	Exposure time	15 min
	Species	rabbit
	Method	BASF Test
Talc 14807-96-6	Result	slightly irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
benzyl alcohol 100-51-6	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
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)

Serious eye damage/irritation:

2,2'-iminodiethylamine 111-40-0	Result	corrosive
	Exposure time	30 s
	Species	rabbit
	Method	not specified
Talc 14807-96-6	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
benzyl alcohol 100-51-6	Result	irritating
	Exposure time	24 h
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	Result	highly irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

2,2'-iminodiethylamine 111-40-0	Result	sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Talc 14807-96-6	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)
4,4'-Isopropylidenediphenol 80-05-7	Result	not sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 406 (Skin Sensitisation)
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)

Germ cell mutagenicity:

2,2'-iminodiethylamine 111-40-0	Result	positive
	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'-iminodiethylamine 111-40-0	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	Chromosome Aberration Test
2,2'-iminodiethylamine 111-40-0	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
2,2'-iminodiethylamine 111-40-0	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	mouse
	Method	not specified
Talc 14807-96-6	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)
Talc 14807-96-6	Result	negative
	Type of study / Route of administration	in vitro mammalian cell transformation assay
	Metabolic activation / Exposure time	without
	Method	equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Talc 14807-96-6	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	rat
	Method	equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal 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
4,4'-Isopropylidenediphenol 80-05-7	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	not specified
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)

Repeated dose toxicity:

2,2'-iminodiethylamine 111-40-0	Result	NOAEL=70 - 80 mg/kg
	Route of application	oral: feed
	Exposure time / Frequency of treatment	90 ddaily
	Species	rat
	Method	not specified
2,2'-iminodiethylamine 111-40-0	Result	NOAEL=0.55 mg/l
	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	15 d6 h/d
	Species	rat
	Method	not specified
Talc 14807-96-6	Result	NOAEL=100 mg/kg
	Route of application	oral: feed
	Exposure time / Frequency of treatment	101 d7 d/w
	Species	rat
	Method	equivalent or similar to OECD Guideline 452 (Chronic Toxicity Studies)
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)
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)

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:

2,2'-iminodiethylamine 111-40-0	Value type	LC50
	Value	430 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Poecilia reticulata
	Method	EU Method C.1 (Acute Toxicity for Fish)
	Value type	NOEC
	Value	> 10 mg/l
	Acute Toxicity Study	Fish
	Exposure time	28 d
	Species	Gasterosteus aculeatus
	Method	OECD Guideline 210 (fish early lite stage toxicity test)
2,2'-iminodiethylamine 111-40-0	Value type	EC50
	Value	64.6 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	EU Method C.2 (Acute Toxicity for Daphnia)
2,2'-iminodiethylamine 111-40-0	Value type	EC50
	Value	1,164 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	10 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)
2,2'-iminodiethylamine 111-40-0	Value type	NOEC
	Value	6 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	anaerobic bacteria
	Method	not specified
Talc 14807-96-6	Value type	LC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Brachydanio rerio (new name: Danio rerio)
	Method	OECD Guideline 203 (Fish, Acute Toxicity 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)
4,4'-Isopropylidenediphenol 80-05-7	Value type	LC50
	Value	4.6 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
	Value type	LOEC
	Value	0.000372 mg/l
	Acute Toxicity Study	Fish
	Exposure time	300 d
	Species	Danio rerio
	Method	OECD Guideline 234 (Fish Sexual Development Test)
4,4'-Isopropylidenediphenol 80-05-7	Value type	EC50
	Value	0.885 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Acartia clausi
	Method	other guideline:
4,4'-Isopropylidenediphenol 80-05-7	Value type	EC50
	Value	3.73 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	other:

	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC10
	Value	2.1 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
4,4'-Isopropylidenediphenol 80-05-7	Value type	EC10
	Value	> 320 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	18 h
	Species	Pseudomonas putida
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-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)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 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)ethylenediamine 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)ethylenediamine 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)ethylenediamine 1760-24-3	Value type	EC 50
	Value	435 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h

	Species	
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

2,2'-iminodiethylamine 111-40-0	Result	inherently biodegradable
	Route of application	aerobic
	Degradability	83 %
	Method	EU Method C.9 (Biodegradation: Zahn-Wellens Test)
	Result	readily biodegradable
	Route of application	aerobic
	Degradability	87 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle 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)
4,4'-Isopropylidenediphenol 80-05-7	Result	readily biodegradable
	Route of application	aerobic
	Degradability	89 %
	Method	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
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))
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	Result	
	Route of application	aerobic
	Degradability	50 %
	Method	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)

Bioaccumulative potential / Mobility in soil:

2,2'-iminodiethylamine 111-40-0	Bioconcentration factor (BCF)	> 0.3 - < 6.3
	Exposure time	42 d
	Species	Cyprinus carpio
	Temperature	
	Method	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
2,2'-iminodiethylamine 111-40-0	LogPow	-1.58
	Temperature	20 °C
	Method	QSAR (Quantitative Structure Activity Relationship)
Talc 14807-96-6	LogPow	-9.4
	Temperature	25 °C
	Method	QSAR (Quantitative Structure Activity Relationship)
m-Phenylenebis(methylamine) 1477-55-0	LogPow	0.18
	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
4,4'-Isopropylidenediphenol 80-05-7	Bioconcentration factor (BCF)	5.1 - 67
	Exposure time	42 d
	Species	Cyprinus carpio
	Temperature	25 °C
	Method	other guideline:
4,4'-Isopropylidenediphenol 80-05-7	LogPow	3.4
	Temperature	21.5 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
benzyl alcohol 100-51-6	LogPow	1.05
	Temperature	20 °C
	Method	EU Method A.8 (Partition Coefficient)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	LogPow	-1.67
	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:	8
Packing group:	II
Classification code:	C7
Hazard ident. number:	80
UN no.:	2735
Label:	8
Technical name:	AMINES, LIQUID, CORROSIVE, N.O.S. (m-Xylylenediamine,Diethylenetriamine)

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. (m-Xylylenediamine,Diethylenetriamine)

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. (m-Xylylenediamine,Diethylenetriamine)

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. (m-Xylylenediamine,Diethylenetriamine,4,4'-Isopropylidenediphenol)

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. (m-Xylylenediamine,Diethylenetriamine)

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
TCSI	yes
TSCA	yes
AIIC	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 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).