Safety Data Sheet according to Singapore Standard SS 586.

LOCTITE EA 9309NA AERO PART B 8OZ

SDS No. : 270172
V001.4
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Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE EA 9309NA AERO PART B 8OZ

Other means of identification: EA 9309NA PART B 8OZ
Product code: IDH1036827
Recommended use of the chemical and restrictions on use

Intended use: Part B of 2-Component Epoxy Adhesive.
Manufacturer/Importer/Distributor Representative Company

Henkel Singapore Pte Ltd
Science Park Drive 1B
Units 09-31 to 09-35
119315 Singapore

Singapore

Phone: +65 (6266) 0100
Fax-no.: +65 (6266) 1161

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: +65 6424 7016

Section 2. Hazards identification

GHS Classification:

Hazard Class	Hazard Category
Skin corrosion/irritation	Category 1B
Serious eye damage/eye irritation	Category 1
Skin sensitizer	Category 1

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.

Precaution:

Prevention:
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.
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.
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.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.

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
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	60- 100 %	Skin corrosion 1B H314 Serious eye damage/eye irritation 1 H318 Skin Sensitization 1 H317
2-[2-(3-Aminopropoxy)ethoxy]ethanol 112-33-4	1- 10 %	Skin corrosion 1B H314 Serious eye damage/eye irritation 1 H318
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	1- 10 %	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
N,N'-bis[3-(trimethoxysilyl)propyl]ethylenediamine 68845-16-9	0.1- 1 %	Acute toxicity 4; Inhalation H332 Serious eye damage/eye irritation 1 H318 Skin Sensitization 1 H317 Target Organ Systemic Toxicant - Repeated exposure 2; Inhalation H373
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-, homopolymer 29226-47-9	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

Section 4. First aid measures

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

Skin contact: Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing. If necessary, see a dermatologist.

Eye contact: Wash with plenty of water immediately and continue for several minutes, holding eyelid open. Consult a doctor.

Ingestion: Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.
Immediate medical treatment necessary.

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

Section 5. Fire fighting measures

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

	Fine water spray
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. In case of fire, keep containers cool with water spray.
Special protection equipment and precautions for firefighters:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Dispose of combustion residues and contaminated fire-fighting water in accordance with statutory regulations. Collect contaminated fire fighting water separately. It must not enter drains.

Section 6. Accidental release measures

Personal precautions:	Avoid contact with skin and eyes. Wear protective equipment. Ensure adequate ventilation.
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	Remove mechanically. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Handling:	Ensure good ventilation/suction at the workplace. See advice in section 8 Avoid skin and eye contact. Do not spray onto flames or red-hot objects. Keep away from sources of ignition - no smoking.
Storage:	Store only in the original container.Store in a cool, dry place. Ensure that storage and workrooms are adequately ventilated. Must be stored in a room with spill collection facilities. Keep away from heat and direct sunlight. Refer to Technical Data Sheet.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

Respiratory protection:	Suitable breathing mask when there is inadequate ventilation. Suitable respiratory protection: Filter type: A
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:	Goggles which can be tightly sealed. and/or facial protection Protective eye equipment should conform to EN166.
Body protection:	Wear protective equipment. Protective clothing that covers arms and legs. apron 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:	Red liquid
Odor:	Ammoniacal
Odor threshold (CA):	No data available.
pH:(Concentration: 100 g/l)	12.00 - 14.00
Melting point / freezing point:	Not applicable, Product is a liquid
Specific gravity:	1.02
Boiling point:	> 100 °C (> 212 °F)
Flash point:	> 93 °C (> 199.4 °F)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Lower explosive limit:	No data available.
Upper explosive limit:	No data available.
Vapor pressure:	No data available.
Vapor density:	8.45

Density:	1 g/cm31.02 g/cm3
Solubility:	Partially miscible (20 °C)
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	Not available.
Decomposition temperature:	> 100 °C
Viscosity:	No data available.
VOC content: (2010/75/EC)	< 3 %

Section 10. Stability and reactivity

Reactivity/Incompatible materials:	Reaction with strong oxidants. Reaction with strong acids. Reaction with strong bases Will cause some corrosion to copper alloys and aluminum. Reaction with some curing agents may produce an exothermic reaction which in large masses could cause runaway polymerization.
Chemical stability:	Stable under recommended storage conditions.
Conditions to avoid:	Danger of decomposition if exposed to heat. Do not heat mixed adhesive unless you plan to use immediately. Failure to observe these precautions may result in excessive heat build-up causing an exotherm.
Hazardous decomposition products:	Hydrocarbons Irritating vapors. At higher temperature ammonia or amine derivatives may be generated. At higher temperature carbon oxides and nitrogen oxides may be generated. May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and other toxic fumes. See section 5.

Section 11. Toxicological information

Inhalative toxicity:	Acute toxicity estimate (ATE) : > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method

Symptoms of Overexposure**:** Causes burns.
SKIN: Rash, Urticaria.

Acute oral toxicity:

3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Value type	LD50
	Value	3,160 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
2-[2-(3-Aminopropoxy)ethoxy]ethanol 112-33-4	Value type	LD50
	Value	6,500 mg/kg
	Species	rat
	Method	not specified
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)
N,N'-bis[3-(trimethoxysilyl)propyl]ethylenediamine 68845-16-9	Value type	LD50
	Value	2,295 mg/kg
	Species	rat
	Method	EPA OPPTS 870.1100 (Acute Oral Toxicity)
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-, homopolymer 29226-47-9	Value type	LD50
	Value	2,295 mg/kg
	Species	rat
	Method	EPA OPPTS 870.1100 (Acute Oral Toxicity)

Acute inhalative 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
N,N'-bis[3-(trimethoxysilyl)propyl]ethylenediamine 68845-16-9	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,N'-bis[3-(trimethoxysilyl)propyl]ethylenediamine 68845-16-9	Value type	Acute toxicity estimate (ATE)
	Value	1.49 mg/l
	Exposure time	
	Species	
	Method	Expert judgement
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-, homopolymer 29226-47-9	Value type	Acute toxicity estimate (ATE)
	Value	1.49 mg/l
	Exposure time	
	Species	
	Method	Expert judgement

Acute dermal toxicity:

3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Value type	Acute toxicity estimate (ATE)
	Value	2,500 mg/kg
	Species	
	Method	Expert judgement
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Value type	LD50
	Value	> 2,150 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
2-[2-(3-Aminopropoxy)ethoxy]ethanol 112-33-4	Value type	LD50
	Value	6,330 mg/kg
	Species	rabbit
	Method	not specified
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)
N,N'-bis[3-(trimethoxysilyl)propyl]ethylenediamine 68845-16-9	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	EPA OPPTS 870.1200 (Acute Dermal Toxicity)
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-, homopolymer 29226-47-9	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	EPA OPPTS 870.1200 (Acute Dermal Toxicity)

Skin corrosion/irritation:

3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Result	Sub-Category 1B (corrosive)
	Exposure time	
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-[2-(3-Aminopropoxy)ethoxy]ethanol 112-33-4	Result	Category 1B (corrosive)
	Exposure time	
	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)
N,N'-bis[3-(trimethoxysilyl)propyl]ethylenediamine 68845-16-9	Result	mildly irritating
	Exposure time	4 h
	Species	rabbit
	Method	EPA OPPTS 870.2500 (Acute Dermal Irritation)

Serious eye damage/irritation:

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)
N,N'-bis[3-(trimethoxysilyl)propyl]ethylenediamine 68845-16-9	Result	Category 1 (irreversible effects on the eye)
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-, homopolymer 29226-47-9	Result	Category 1 (irreversible effects on the eye)
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

2-[2-(3-Aminopropoxy)ethoxy]ethanol 112-33-4	Result	not sensitising
	Test type	Buehler test
	Species	guinea pig
	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)
N,N'-bis[3-(trimethoxysilyl)propyl]ethylenediamine 68845-16-9	Result	sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
N,N'-bis[3-(trimethoxysilyl)propyl]ethylenediamine 68845-16-9	Result	sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-, homopolymer 29226-47-9	Result	Sub-Category 1A (sensitising)
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Result	negative
	Type of study / Route of administration	in vitro mammalian cell micronucleus test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	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)
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-[2-(3-Aminopropoxy)ethoxy]ethanol 112-33-4	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)
N,N'-bis[3-(trimethoxysilyl)propyl]ethylene diamine 68845-16-9	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
N,N'-bis[3-(trimethoxysilyl)propyl]ethylene diamine 68845-16-9	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Repeated dose toxicity:

3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Result	NOAEL=< 100 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	59 daysdaily
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
N,N'-bis[3-(trimethoxysilyl)propyl]ethylene diamine 68845-16-9	Result	NOAEL=15 mg/m3
	Route of application	inhalation: aerosol
	Exposure time / Frequency of treatment	13 w6 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:

Toxicity:

3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Value type	LC50
	Value	> 215 - 464 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Leuciscus idus

	Method	DIN 38412-15
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Value type	EC50
	Value	218 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	EU Method C.2 (Acute Toxicity for Daphnia)
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Value type	EC50
	Value	666 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	15.6 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	DIN 38412-09
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Value type	EC10
	Value	152.5 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	17 h
	Species	Pseudomonas putida
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
2-[2-(3-Aminopropoxy)ethoxy]ethanol 112-33-4	Value type	LC50
	Value	681.18 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Danio rerio
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-[2-(3-Aminopropoxy)ethoxy]ethanol 112-33-4	Value type	EC50
	Value	> 100 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	EU Method C.2 (Acute Toxicity for Daphnia)
2-[2-(3-Aminopropoxy)ethoxy]ethanol 112-33-4	Value type	NOEC
	Value	100 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	> 100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	EU Method C.3 (Algal Inhibition test)
2-[2-(3-Aminopropoxy)ethoxy]ethanol 112-33-4	Value type	EC10
	Value	280 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	16 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	Value type	EC50
	Value	8.8 mg/l
	Acute Toxicity Study	Algae

1760-24-3	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	EC50
	Value	435 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
N,N'-bis[3-(trimethoxysilyl)propyl]ethylenediamine 68845-16-9	Value type	LC50
	Value	597 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Danio rerio (reported as Brachydanio rerio)
	Method	EU Method C.1 (Acute Toxicity for Fish)
N,N'-bis[3-(trimethoxysilyl)propyl]ethylenediamine 68845-16-9	Value type	EC50
	Value	81 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	EU Method C.2 (Acute Toxicity for Daphnia)
N,N'-bis[3-(trimethoxysilyl)propyl]ethylenediamine 68845-16-9	Value type	EC50
	Value	8.8 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	3.1 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)

Persistence and degradability:

3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Result	not inherently biodegradable
	Route of application	aerobic
	Degradability	< 20 %
	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 B (Ready Biodegradability: CO2 Evolution Test)
2-[2-(3-Aminopropoxy)ethoxy]ethanol 112-33-4	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	15 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
	Result	inherently biodegradable
	Route of application	aerobic
	Degradability	100 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution 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" BiodegradabilityDissolved Organic Carbon (DOC) Die-Away Test)
N,N'-bis[3-(trimethoxysilyl)propyl]ethylenediamine 68845-16-9	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	39 %
	Method	EU Method C.4-A (Determination of the "Ready" BiodegradabilityDissolved Organic Carbon (DOC) Die-Away Test)

Bioaccumulative potential / Mobility in soil:

3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	LogPow	-1.25
	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
2-[2-(3-Aminopropoxy)ethoxy]ethanol 112-33-4	LogPow	-1.47
	Temperature	23 °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
N,N'-bis[3-(trimethoxysilyl)propyl]ethylenediamine 68845-16-9	LogPow	-3.3
	Temperature	20 °C
	Method	QSAR (Quantitative Structure Activity Relationship)

Section 13. Disposal considerations

Product

Method of disposal: Dispose of in accordance with local and national regulations.

Packaging

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

Section 14. Transport information

Road transport ADR:

Class:	8
Packing group:	II
Classification code:	C7
Hazard ident. number:	80
UN no.:	2735
Label:	8
Technical name:	AMINES, LIQUID, CORROSIVE, N.O.S. (Diethylene glycol di-(3-aminopropyl) ether)

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. (Diethylene glycol di-(3-aminopropyl) ether)

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. (Diethylene glycol di-(3-aminopropyl) ether)

Marine transport IMDG:

Class:	8
Packing group:	II
UN no.:	2735
Label:	8
EmS:	F-A ,S-B
Seawater pollutant:	-
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (Diethylene glycol di-(3-aminopropyl) ether)

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. (Diethylene glycol di-(3-aminopropyl) ether)

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
AIIC	yes
DSL	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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