Safety Data Sheet

LOCTITE PC 7218 AU PTB

SDS No. : 735780
V001.4
Date of issue: 19.01.2024

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

Product name: LOCTITE PC 7218 AU PTB

Intended use: hardener component

Supplier:
Henkel Australia Pty Ltd
135-141 Canterbury Road
Kilsyth, Victoria, 3137
Australia

Phone: +61 (3) 9724 6444

Emergency Telephone for Chemical Accidents: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture
Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

Hazard Class	Hazard Category
Skin corrosion	Sub-category 1B
Serious eye damage/eye irritation	Category 1
Skin sensitizer	Category 1
Acute hazards to the aquatic environment	Category 2
Chronic hazards to the aquatic environment	Category 2

Hazard pictogram:



Signal word: Danger

Hazard statement(s):	H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.
Precautionary Statement(s):	
Prevention:	P260 Do not breathe dust or fumes. 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.
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+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Get immediate medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage.
Storage:	P405 Store locked up.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

Dangerous Goods information:
Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Section 3. Composition / information on ingredients

General chemical description: Mixture

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine	68082-29-1	3- < 10 %
N,N'-bis(3-aminopropyl)ethylenediamine	10563-26-5	3- < 5 %
Fatty acids C18 unsat, reaction products with tetraethylenepentamine	1226892-45-0	3- < 5 %
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled	8007-24-7	1- < 3 %
Calcium oxide	1305-78-8	1- < 3 %
Amines, polyethylenepoly-, tetraethylenepentamine fraction	90640-66-7	< 1 %
salicylic acid	69-72-7	< 1 %
Amines, polyethylenepoly-, triethylenetetramine fraction	90640-67-8	< 1 %
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	1760-24-3	0.1- < 1 %
non hazardous ingredients~		60- <= 80 %

Section 4. First aid measures

Ingestion:	Do not induce vomiting. Have victim rinse mouth thoroughly with water. Seek medical advice.
Skin:	In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Seek medical attention from a specialist.
Eyes:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention from a specialist.
Inhalation:	Move to fresh air. Keep warm and in a quiet place. Seek medical advice.
First Aid facilities:	Eye wash and safety shower Normal washroom facilities
Medical attention and special treatment:	Treat symptomatically.

Section 5. Fire fighting measures

Suitable extinguishing media:	Carbon dioxide, foam, powder Fine water spray
Improper extinguishing media:	Water spray jet
Decomposition products in case of fire:	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide. Oxides of nitrogen.
Particular danger in case of fire:	Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.
Special protective equipment for fire-fighters:	Wear protective equipment. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).
Additional fire fighting advice:	In case of fire, keep containers cool with water spray. Collect contaminated fire fighting water separately. It must not enter drains.

Section 6. Accidental release measures

Personal precautions:	Danger of slipping on spilled product. Ensure adequate ventilation. Avoid skin and eye contact. Wear impervious gloves and chemical splash goggles.
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Scrape up as much material as possible. Clean residue with soap and water. Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Precautions for safe handling: Gloves and safety glasses should be worn
Avoid skin and eye contact.
Ensure that workrooms are adequately ventilated.
Avoid breathing vapors or mists of this product.
Keep container tightly sealed.

Conditions for safe storage: Avoid strictly temperatures below + 10 °C and above + 50 °C.
Protect from direct sunlight.

Section 8. Exposure controls / personal protection

National exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
CALCIUM OXIDE 1305-78-8			2				

Engineering controls: Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

Eye protection: For eye protection, use tightly fitted safety goggles and a face-shield

Skin protection: Use of protective coveralls and long sleeves is recommended.
Suitable protective gloves.

Respiratory protection: If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

Section 9. Physical and chemical properties

Appearance: dark grey
solid
Odor: Of amine
pH: Not applicable
Density: 2.1 - 2.5 g/cm3
Solubility in water: Insoluble

Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Avoid heating.
Keep away from open flames, hot surfaces and sources of ignition.
Take measures to prevent the build-up of electrostatic charges.

Incompatible materials:	Acids. Oxidizing agents.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide. Oxides of nitrogen.
Hazardous polymerization:	Will not occur.

Section 11. Toxicological information

Health Effects:

Ingestion: Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Skin: Corrosive to skin.
Symptoms may include redness, burning, drying, cracking and skin burns.
May cause skin sensitization.

Eyes: Causes serious eye damage.
Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Inhalation: Inhalation of vapors or mist can cause severe irritation, tissue and scarring of the respiratory tract.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	LD50 LD50	> 2,000 mg/kg > 2,000 mg/kg	oral dermal		rat rat	OECD Guideline 423 (Acute Oral toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
N,N'-bis(3-aminopropyl)ethylenediamine 10563-26-5	LD50 Acute toxicity estimate (ATE)	1,140 mg/kg 300 mg/kg	oral dermal		rat	BASF Test Expert judgement
Fatty acids C18 unsat, reaction products with tetraethylenepentamine 1226892-45-0	LD50 Acute toxicity estimate (ATE)	> 2,000 mg/kg 2,500 mg/kg	oral oral		rat	OECD Guideline 423 (Acute Oral toxicity) Expert judgement
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled 8007-24-7	LD50 LD50	> 2,000 mg/kg > 2,000 mg/kg	oral dermal		rat rat	OECD Guideline 423 (Acute Oral toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
Calcium oxide 1305-78-8	LD50 LC50 LD50	> 2,000 mg/kg > 6.04 mg/l > 2,500 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure) OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class (ATC) Method) OECD Guideline 402 (Acute Dermal Toxicity)
Amines, polyethylenepoly-, tetraethylenepentamine fraction 90640-66-7	LD50 LD50	3,221 mg/kg 1,260 mg/kg	oral dermal		rat rabbit	not specified not specified
salicylic acid 69-72-7	LD50 LD50	891 mg/kg > 2,000 mg/kg	oral dermal		rat rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	LD50 LD50	1,716 mg/kg 1,465 mg/kg	oral dermal		rat rabbit	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	LD50 LC50 Acute toxicity estimate (ATE) LD50	2,295 mg/kg 1.49 - 2.44 mg/l 1.49 mg/l > 2,000 mg/kg	oral inhalation inhalation dermal	4 h	rat rat rat	EPA OPPTS 870.1100 (Acute Oral Toxicity) EPA OPPTS 870.1300 (Acute inhalation toxicity) Expert judgement EPA OPPTS 870.1200 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	irritating or corrosive		Human, EpiDermTM SIT (EPI-200), Reconstructed Human Epidermis (RHE)	OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	not corrosive		Human, in vitro skin model	OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method)
N,N'-bis(3-aminopropyl)ethylenediamine 10563-26-5	Sub-Category 1B (corrosive)		rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Fatty acids C18 unsat, reaction products with tetraethylenepentamine 1226892-45-0	Sub-Category 1C (corrosive)	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled 8007-24-7	irritating	24 h	rabbit	other guideline:
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled 8007-24-7	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Calcium oxide 1305-78-8	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Amines, polyethylenepoly-, tetraethylenepentamine fraction 90640-66-7	corrosive		Corrositex Biobarrier Membrane (reconstituted collagen matrix)	OECD Guideline 435 (In Vitro Membrane Barrier Test Method for Skin Corrosion)
salicylic acid 69-72-7	slightly irritating		rabbit	not specified
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	corrosive		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	mildly irritating	4 h	rabbit	EPA OPPTS 870.2500 (Acute Dermal Irritation)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled 8007-24-7	corrosive		Rabbit, cornea, in vitro assay	not specified
Calcium oxide 1305-78-8	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
salicylic acid 69-72-7	highly irritating		rabbit	Draize Test
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	Category 1 (irreversible effects on the eye)		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	highly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	sensitising	Guinea pig maximisation test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
N,N'-bis(3-aminopropyl)ethylenediamine 10563-26-5	sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Fatty acids C18 unsat, reaction products with tetraethylenepentamine 1226892-45-0	Sub-Category 1A (sensitising)	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled 8007-24-7	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled 8007-24-7	Sub-Category 1A (sensitising)	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Calcium oxide 1305-78-8	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Amines, polyethylenepoly-, tetraethylenepentamine fraction 90640-66-7	Sensitizing	Guinea pig maximisation test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
salicylic acid 69-72-7	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	Sensitizing	Buehler test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	Sub-Category 1A (sensitising)	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Fatty acids C18 unsat, reaction products with tetraethylenepentamine 1226892-45-0	negative negative	in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Calcium oxide 1305-78-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Amines, polyethylenepoly-, tetraethylenepentamine fraction 90640-66-7	positive positive positive negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay sister chromatid exchange assay in mammalian cells in vitro mammalian cell micronucleus test	with and without with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) equivalent or similar to OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells) OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
Amines, polyethylenepoly-, tetraethylenepentamine fraction 90640-66-7	negative	intraperitoneal		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
salicylic acid 69-72-7	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without with and without with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
salicylic acid 69-72-7	negative	oral: gavage		mouse	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	positive negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian cell micronucleus test	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	negative	intraperitoneal		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Fatty acids C18 unsat, reaction products with tetraethylenepentamine 1226892-45-0	NOAEL=>= 300 mg/kg	oral: gavage		rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Calcium oxide 1305-78-8	NOAEL=1,000 mg/kg	oral: gavage	up to 48 consecutive daysdaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Amines, polyethylenepoly-, tetraethylenepentamine fraction 90640-66-7	LOAEL=50 mg/kg	oral: gavage	26 wdaily	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Amines, polyethylenepoly-, tetraethylenepentamine fraction 90640-66-7	NOAEL=200 mg/kg	dermal	20 d6 h/d, 5 d/w	rabbit	OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
salicylic acid 69-72-7	NOAEL=50 mg/kg	oral: feed	2 yearsdaily	rat	not specified
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	LOAEL=50 mg/kg	oral: gavage	26 wdaily	rat	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:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	LC50	7.07 mg/l	Fish	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	EC50	7.07 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	EC50	4.34 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	NOEC	0.5 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	EC10	130 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
N,N'-bis(3-aminopropyl)ethylenediamine 10563-26-5	LC50	> 220 - 460 mg/l	Fish	96 h	Leuciscus idus	DIN 38412-15
N,N'-bis(3-aminopropyl)ethylenediamine 10563-26-5	EC50	42.54 mg/l	Daphnia	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
N,N'-bis(3-aminopropyl)ethylenediamine 10563-26-5	EC50	> 100 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
N,N'-bis(3-aminopropyl)ethylenediamine 10563-26-5	EC10	93.6 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
N,N'-bis(3-aminopropyl)ethylenediamine 10563-26-5	EC50	720 mg/l	Bacteria	3 h	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Fatty acids C18 unsat, reaction products with tetraethylenepentamine 1226892-45-0	LC50	0.19 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Fatty acids C18 unsat, reaction products with tetraethylenepentamine 1226892-45-0	EC50	0.18 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Fatty acids C18 unsat, reaction products with tetraethylenepentamine 1226892-45-0	EC50	0.638 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Fatty acids C18 unsat, reaction products with tetraethylenepentamine 1226892-45-0	EC10	0.395 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Fatty acids C18 unsat, reaction products with tetraethylenepentamine 1226892-45-0	EC50	114 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled 8007-24-7	LC50	1,000 mg/l	Fish	96 h	not specified	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cashew (Anacardium	EL50	1,300 mg/l	Algae	72 h	Skeletonema costatum	ISO 10253 (Water

occidentale) Nutshell Extract, Decarboxylated, Distilled 8007-24-7						quality)
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled 8007-24-7	NOELR	125 mg/l	Algae	72 h	Skeletonema costatum	ISO 10253 (Water quality)
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled 8007-24-7	EC50	> 1,000 mg/l	Bacteria	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Calcium oxide 1305-78-8	LC50	50.6 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Calcium oxide 1305-78-8	EC50	49.1 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Calcium oxide 1305-78-8	EC50	184.57 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Calcium oxide 1305-78-8	NOEC	48 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Calcium oxide 1305-78-8	EC20	229.2 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Amines, polyethylenepoly-, tetraethylenepentamine fraction 90640-66-7	LC50	420 mg/l	Fish	96 h	Poecilia reticulata	OECD Guideline 203 (Fish, Acute Toxicity Test)
Amines, polyethylenepoly-, tetraethylenepentamine fraction 90640-66-7	EC50	24.1 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Amines, polyethylenepoly-, tetraethylenepentamine fraction 90640-66-7	EC50	6.8 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Amines, polyethylenepoly-, tetraethylenepentamine fraction 90640-66-7	NOEC	0.5 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Amines, polyethylenepoly-, tetraethylenepentamine fraction 90640-66-7	EC50	97.3 mg/l	Bacteria	2 h	other:	other guideline:
salicylic acid 69-72-7	LC50	1,370 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
salicylic acid 69-72-7	EC50	870 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
salicylic acid 69-72-7	EC50	> 100 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
salicylic acid 69-72-7	EC50	> 1,000 mg/l	Bacteria	3 h	not specified	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	LC50	330 mg/l	Fish	96 h	Pimephales promelas	other guideline:
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	EC50	31 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Amines, polyethylenepoly-, triethylenetetramine fraction	EC50	20 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella	OECD Guideline 201 (Alga, Growth

90640-67-8					subcapitata)	Inhibition Test)
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	EC10	1.34 mg/l	Algae	72 h	Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	LC50	168 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	EC50	87.4 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	EC50	8.8 mg/l	Algae	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	NOEC	3.1 mg/l	Algae	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	EC 50	435 mg/l	Bacteria	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method

Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	not readily biodegradable.	no data	0 - 60 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
N,N'-bis(3-aminopropyl)ethylenediamine 10563-26-5	readily biodegradable	aerobic	70 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Fatty acids C18 unsat, reaction products with tetraethylenepentamine 1226892-45-0	not readily biodegradable.	aerobic	24 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled 8007-24-7	readily biodegradable	aerobic	96 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Amines, polyethylenepoly-, tetraethylenepentamine fraction 90640-66-7	not readily biodegradable.	aerobic	0 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Amines, polyethylenepoly-, tetraethylenepentamine fraction 90640-66-7	not inherently biodegradable	aerobic	17 %	OECD Guideline 302 A (Inherent Biodegradability: Modified SCAS Test)
salicylic acid 69-72-7	readily biodegradable	aerobic	88.1 %	EU Method C.4-F (Determination of the "Ready" BiodegradabilityMITI Test)
salicylic acid 69-72-7	inherently biodegradable	aerobic	100 %	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	not readily biodegradable.	aerobic	0 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	not inherently biodegradable	aerobic	20 %	OECD Guideline 302 A (Inherent Biodegradability: Modified SCAS Test)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3		aerobic	50 %	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method

Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	10.34					QSAR (Quantitative Structure Activity Relationship)
N,N'-bis(3-aminopropyl)ethylenediamine 10563-26-5		< 0.5	42 d	Cyprinus carpio		OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
N,N'-bis(3-aminopropyl)ethylenediamine 10563-26-5	-1.55				23 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Fatty acids C18 unsat, reaction products with tetraethylenepentamine 1226892-45-0	2.2				25.2 °C	OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow-Stirring Method)
Amines, polyethylenepoly-, tetraethylenepentamine fraction 90640-66-7	-3.16					QSAR (Quantitative Structure Activity Relationship)
salicylic acid 69-72-7	2.26				20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	-2.65					OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	-1.67					not specified

Section 13. Disposal considerations

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

Recommended cleanser: Suitable organic solvents:

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

Section 14. Transport information

Road and Rail Transport:

Dangerous Goods information:	Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).
UN no.:	3259
Proper shipping name:	AMINES, SOLID, CORROSIVE, N.O.S. (N,N'-Bis(3-aminopropyl)ethylenediamine,Fatty acids C18 unsat, reaction products with tetraethylenepentamine)
Class or division:	8
Packing group:	II
Emergency Telephone for Chemical Accidents:	Refer to the Australian Emergency Response Guide Book

Marine transport IMDG:

UN no.:	3259
Proper shipping name:	AMINES, SOLID, CORROSIVE, N.O.S. (N,N'-Bis(3-aminopropyl)ethylenediamine,Fatty acids C18 unsat, reaction products with tetraethylenepentamine)
Class or division:	8
Packing group:	II
EmS:	F-A ,S-B
Seawater pollutant:	Marine pollutant

Air transport IATA:

UN no.:	3259
Proper shipping name:	Amines, solid, corrosive, n.o.s. (N,N'-Bis(3-aminopropyl)ethylenediamine,Fatty acids C18 unsat, reaction products with tetraethylenepentamine)
Class or division:	8
Packing group:	II
Packing instructions (passenger)	859
Packing instructions (cargo)	863

Section 15. Regulatory information

SUSMP Poisons Schedule 5

AIIC: All components are listed or are exempt from listing on the Australian Inventory of Industrial Chemicals or Introduced under AICIS.

Section 16. Other information

Abbreviations/acronyms:
ADGC - Australian Dangerous Goods Code
GHS: Globally Harmonized System
CAS: Chemical Abstracts Service
OECD: Organization for Economic Cooperation and Development
LC 50: Lethal Concentration 50%
LD 50: Lethal Dose 50%
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
AIIC - Australian Inventory of Industrial Chemicals (AIIC)
AICIS - Australian Industrial Chemicals Introduction Scheme

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 3,11

Date of previous issue: 15.01.2024

Disclaimer:

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