



MSDS NZ Supplement Sheet

Product: 8.21/8.22 Hardener (Component B)

NZ Supplier: Rockbond SCP Ltd
7 Te Puni Street, Petone, Wellington
P.O. Box 38-526, Wellington
Phone +64 4 568 5401

Emergency telephone number:

0800 CHEMCALL (0800 243 622)

HSNO Approval Number

HSR002491 Additives, Process Chemicals & Raw Materials (Corrosive)

Hazard Identification:

GHS Classifications:	Category
Acute toxicity	4
Acute toxicity	5
Skin corrosion/irritation	1B
Serious eye damage/eye irritation	1
Skin sensitisation	1
Specific target organ toxicity (repeated exposure)	2
Acute hazards to the aquatic environment	2
Chronic hazards to the aquatic environment	2

Refer to the Hazard Identification, First Aid measures and exposure limits in the main body of the accompanying MSDS for actions if; SWALLOWED, INHALED, IN EYES, ON SKIN, accidental release into the ENVIRONMENT:

Transport Information:

Hazard Class	8	Packing Group	II
UN Number	2735		
Proper Shipping Name:	AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylen Diamine, 3-Diethylamino-1-Propylamine, Phenol, Dodecyl)		

Other Information:

Certified Handler: Not Required

Tracking: Not Required

This supplement must be read in conjunction with the attached MSDS.

Date of Issue 01/05/2025

SAFETY DATA SHEET

1. Identification

Product identifier: 8.21H/8.22H (Comp B)

Other means of identification

Recommended use: Curing agents.

Recommended restrictions: Not determined.

Manufacturer/Importer/Distributor Information

Company Name Rockbond SCP Ltd
7 Te Puni Street, Petone

Wellington, New Zealand

Telephone : +64 4 568 5401

Emergency telephone number:

24-Hour Health : 0800 243 622
Emergency

2. Hazard(s) identification

According to Hazardous Products Regulations

Health Hazards

Acute toxicity (Oral)	Category 4
Acute toxicity (Dermal)	Category 5
Skin Corrosion/Irritation	Category 1B
Serious Eye Damage/Eye Irritation	Category 1
Skin sensitizer	Category 1
Specific Target Organ Toxicity -	Category 2
Repeated Exposure	

Environmental Hazards

Acute hazards to the aquatic environment	Category 2
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Chronic hazards to the aquatic environment

Category 2

Label Elements

Hazard Symbol:



Signal Word:

Danger

Hazard Statement:

Harmful if swallowed.
May be harmful in contact with skin.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May cause damage to organs through prolonged or repeated exposure.
Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/ physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell. Collect spillage.

Storage:

Store locked up.

Disposal:

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.

Other hazards:

No data available.

3. Composition/information on ingredients

Mixtures

General information: Chemical family Amines.

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Mixed Cycloaliphatic Amines	No data available.	Trade Secret	10 - <30%
benzyl alcohol	No data available.	100-51-6	10 - <30%
4,4'-Diaminodicyclohexylmethane	No data available.	1761-71-3	10 - <30%
Fatty Alcohol	No data available.	Trade Secret	10 - <30%
Polyoxypropylen Diamine	No data available.	9046-10-0	1 - <10%
3-Aminopropyldiethylamine	No data available.	104-78-9	1 - <10%
2,4,6-tris(dimethylaminomethyl)phenol	No data available.	90-72-2	1 - <10%
3-Cyclohexylaminopropylamine	No data available.	3312-60-5	1 - <10%
Bis[(dimethylamino)methyl]phenol	No data available.	71074-89-0	1 - <10%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Trade secret information: A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

General information: Pay attention to self-protection. Move out of dangerous area. Keep warm, position comfortably, and cover well. Do not leave the victim unattended.

Inhalation: Move to fresh air. Get medical attention immediately.

Skin Contact: Wash off affected area immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

Eye contact: Rinse immediately with plenty of water for 15 minutes and seek advice of an eye specialist.

Ingestion: Do NOT induce vomiting. Seek medical advice.

Personal Protection for First-aid Responders: In case of fire: wear a self contained respiratory apparatus

Most important symptoms/effects, acute and delayed

Symptoms: corrosive effectssensitising effects

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Continue with first aid measures. Depending on the pathology and clinical findings, patient monitoring and symptomatic treatment are necessary.

5. Fire-fighting measures

General Fire Hazards: Do not allow run-off from fire fighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, foam, CO2, dry powder.

Unsuitable extinguishing media: High volume water jet.

Specific hazards arising from the chemical: May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition. Nitrogen Oxides Under certain fire conditions, traces of other toxic products may occur.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: In case of fire: wear a self contained respiratory apparatus

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Do not breathe vapours or spray mist.

Methods and material for containment and cleaning up: Absorb with liquid-binding material e.g. universal binder Fill into marked, sealable containers. Dispose of contaminated material as a waste in a correct manner.

Environmental Precautions: Do not allow to be introduced into sewage water, soil, waterbodies, ground water, surface waters.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):	If possible, use material transfer/filling, metering and blending plants that are closed.
Safe handling advice:	Provide sufficient ventilation and exhaust at the workplace.
Contact avoidance measures:	No data available.
Hygiene measures:	Avoid contact with skin and eyes. Do not inhale vapours / aerosols. Take off immediately all contaminated clothing. When using do not eat, drink or smoke.

Storage

Safe storage conditions:	Keep tightly closed in a dry and cool place. Keep away from direct sunlight. General rules of fire prevention should be observed.
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Observe national threshold limit values.

Biological Limit Values

Observe national threshold limit values.

Appropriate Engineering Controls

If possible, use material transfer/filling, metering and blending plants that are closed.

Individual protection measures, such as personal protective equipment

General information: No data available.

Eye/face protection: close-fitting protective goggles (e.g. closed goggles) or face protection

Skin Protection

Hand Protection:

Material: nitrile rubber (Camatril Velours)
Break-through time: > 30 min
Additional Information: No protective glove type has been specified for use with this product. The glove listed is only a preliminary recommendation issued by Kächele-Cama Latex GmbH, Am Kreuzacker 9, D-36124 Eichenzell, www.kcl.de, which firm offers such protective gloves. The glove must be changed immediately if any changes in it occur (e.g. swelling, wear).

Other:

Protective suit Rubber or plastic boots

Respiratory Protection:

In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter or wear a self contained respiratory apparatus

Hygiene measures: Avoid contact with skin and eyes. Do not inhale vapours / aerosols. Take off immediately all contaminated clothing. When using do not eat, drink or smoke.

9. Physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Yellow
Odor:	ammoniacal
Odor Threshold:	Not determined., Not required by safety or application considerations.
pH:	11
Freezing point:	No data available. Not required by safety or application considerations.
Boiling Point:	> 200 °C
Flash Point:	> 100 °C
Evaporation Rate:	No data available. Not required by safety or application considerations.
Flammability (solid, gas):	Not applicable liquid

Explosive limit - upper:	see Explosiveness
Explosive limit - lower:	see Explosiveness
Vapor pressure:	No data available. Not required by safety or application considerations.
Relative vapor density:	No data available.
Density:	1,03 g/ml
Relative density:	No data available. Not required by safety or application considerations.

Solubility(ies)

Solubility in Water:	partly soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available. Not required by safety or application considerations.

Self Ignition Temperature: The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self heating.

Decomposition Temperature: No data available. Not required by safety or application considerations.

Kinematic viscosity:	> 20,5 mm ² /s (40 °C)
Dynamic viscosity:	100 - 300 mPa.s (25 °C)

Other information

Explosive properties:	Not explosive
Oxidizing properties:	The substance or mixture is not classified as oxidizing.
Minimum ignition temperature:	No data available. Not required by safety or

Formation of Flammable Gases:	application considerations. Substance or mixture, which in contact with water, does not emit flammable gas
Metal Corrosion:	Not corrosive to metals
Peroxides:	The substance or mixture is not classified as organic peroxide.

10. Stability and reactivity

Reactivity:	Under normal conditions: stable.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Exothermic reaction with: Reducing agents.
Conditions to avoid:	Avoid heat.
Incompatible Materials:	Oxidizing agents. Metals
Hazardous Decomposition Products:	Nitrogen Oxides

11. Toxicological information

Information on likely routes of exposure

Inhalation:	Information on effects are given below.
Skin Contact:	Information on effects are given below.
Eye contact:	Information on effects are given below.
Ingestion:	Information on effects are given below.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral	
Product:	ATEmix: 551 mg/kg
Dermal	
Product:	ATEmix: 3.141 mg/kg

Inhalation

Product:

Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product:

No data available.

Specified substance(s):

Mixed Cycloaliphatic
Amines

NOEL (Rat, Oral): 15 mg/kg

benzyl alcohol

NOAEL (Rat, Oral): 400 mg/kg

Skin Corrosion/Irritation

Product:

No data available.

Specified substance(s):

Mixed Cycloaliphatic
Amines

(> 1,01 - < 4 h): Corrosive.

benzyl alcohol

OECD 404 (Rabbit): Not irritating

4,4'-
Diaminodicyclohexylme
thane

OECD 404 (Rabbit, > 3,01 min - < 1 h): Corrosive.

Fatty Alcohol

(> 3,01 min - < 1 h): Corrosive.

Polyoxypropylen
Diamine

OECD 404 (Rabbit, > 1,01 - < 4 h): Corrosive.

3-
Aminopropyldiethylamin
e

(< 1 h): Corrosive.

2,4,6-
tris(dimethylaminometh
yl)phenol

OECD 404 (Rabbit, > 1,01 - < 4 h): Corrosive.

3-
Cyclohexylaminopropyl
amine

(1 h): Skin corrosion/irritation - Category 1B Corrosive in an in vitro test.

Bis[(dimethylamino)methyl]phenol (> 1,01 - < 4 h): Corrosive.

Serious Eye Damage/Eye Irritation

Product:	No data available.
Specified substance(s):	
Mixed Cycloaliphatic Amines	Risk of serious damage to eyes.
benzyl alcohol	OECD 405 (Rabbit): Irritating.
4,4'-Diaminodicyclohexylmethane	Risk of serious damage to eyes.
Fatty Alcohol	Risk of serious damage to eyes.
Polyoxypropylen Diamine	OECD 405 (Rabbit): Risk of serious damage to eyes.
3-Aminopropyl-diethylamine	Risk of serious damage to eyes.
2,4,6-tris(dimethylaminomethyl)phenol	(Rabbit): Risk of serious damage to eyes.
3-Cyclohexylaminopropylamine	Risk of serious damage to eyes.
Bis[(dimethylamino)methyl]phenol	Risk of serious damage to eyes.

Respiratory or Skin Sensitization

Product:	No data available.
Specified substance(s):	
Mixed Cycloaliphatic Amines	May cause sensitization by skin contact.
benzyl alcohol	Sensitization test, OECD 406 (Guinea Pig): Not a skin sensitizer.
4,4'-Diaminodicyclohexylmethane	Magnusson and Kligman., OECD 406 (Guinea Pig): Skin sensitizer Respiratory sensitizer: No data available.

Fatty Alcohol	Not a skin sensitizer.
3-Aminopropyldiethylamine	May cause sensitization by skin contact.
2,4,6-tris(dimethylaminomethyl)phenol	Maximization Test, OECD 406 (Guinea Pig): Not a skin sensitizer.

Carcinogenicity

Product:	No data available.
Specified substance(s):	
benzyl alcohol	Not classified
4,4'-	Not classified
Diaminodicyclohexylmethane	
Fatty Alcohol	Not classified
3-	Not classified
Aminopropyldiethylamine	

Germ Cell Mutagenicity

In vitro

Product:	No data available.
Specified substance(s):	
Mixed Cycloaliphatic Amines	Ames test: negative Based on available data, the classification criteria are not met. (OECD 476)negative Based on available data, the classification criteria are not met.
	Chromosomal aberration (OECD 473): negative Based on available data, the classification criteria are not met.
3-Cyclohexylaminopropylamine	Bacterial reverse mutation assay (OECD 471): negative

In vivo

Product:	No data available.
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Reproductive toxicity

Product:	No data available.
Specified substance(s):	
benzyl alcohol	Not classified
4,4'-	Not classified
Diaminodicyclohexylmethane	
Fatty Alcohol	Not classified
3-	Not classified
Aminopropyldiethylamine	

Specific Target Organ Toxicity - Single Exposure

Product: No data available.
Specified substance(s):

benzyl alcohol	Not classified
Fatty Alcohol	Not classified
3-	Not classified
Aminopropyldiethylamine	

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s):

Mixed Cycloaliphatic Amines	Kidney - Category 2 May cause damage to organs through prolonged or repeated exposure.
benzyl alcohol	Not classified
4,4'-Diaminodicyclohexylmethane	Liver, Skeletal muscle - Category 2 May cause damage to organs through prolonged or repeated exposure.
Fatty Alcohol	Not classified
3-Aminopropyldiethylamine	Not classified

Aspiration Hazard

Product: No data available.

Specified substance(s):

Mixed Cycloaliphatic Amines	Not classified
benzyl alcohol	Not classified
4,4'-Diaminodicyclohexylmethane	Not classified
Fatty Alcohol	Not classified
Polyoxypropylen Diamine	Not classified
3-Aminopropyldiethylamine	Not classified
2,4,6-tris(dimethylaminomethyl)phenol	Not classified
3-Cyclohexylaminopropylamine	Not classified
Bis[(dimethylamino)methyl]phenol	Not classified

Other effects: No toxicological tests have been conducted with the product itself.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Mixed Cycloaliphatic Amines	LC 50 (Poecilia reticulata, 96 h): 63 mg/l
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benzyl alcohol	LC 50 (Lepomis macrochirus (Bluegill sunfish), 96 h): 10 mg/l
4,4'-Diaminodicyclohexylmethane	LC 50 (Leuciscus idus (Golden orfe), 48 h): 646 mg/l
Fatty Alcohol	LC 50 (Leuciscus idus melanotus, 96 h): > 100 mg/l
Polyoxypropylen	LC 50 (Oncorhynchus clarkii, 96 h): 0,14 mg/l
Diamine	LC 50 (Fish, 96 h): > 15 mg/l
2,4,6-tris(dimethylaminomethyl)phenol	LC 50 (Fish, 96 h): 772,14 mg/l
	LC 50 (Fish, 96 h): 175 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Mixed Cycloaliphatic Amines	EC 50 (Daphnia magna, 48 h): 15,4 mg/l
benzyl alcohol	EC 50 (Daphnia magna, 24 h): 400 mg/l
4,4'-Diaminodicyclohexylmethane	EC 50 (Daphnia magna, 48 h): 9,24 mg/l
Polyoxypropylen	EC 50 (Daphnia (water flea), 48 h): 80 mg/l
Diamine	EC 50 (Daphnia (water flea), 48 h): 418,34 mg/l
2,4,6-tris(dimethylaminomethyl)phenol	LC 50 (Daphnia magna, 96 h): 718 mg/l
3-Cyclohexylaminopropylamine	EC 50 (Daphnia magna, 48 h): 17,1 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

Mixed Cycloaliphatic Amines	EC 50 (Desmodesmus subspicatus (green algae), 72 h): 43,94 mg/l
benzyl alcohol	EC 50 (Scenedesmus quadricauda (Green algae), 96 h): 640 mg/l
4,4'-Diaminodicyclohexylmethane	ErC50 (Desmodesmus subspicatus (green algae), 72 h): 141,2 mg/l (DIN 38412, T.9)
Polyoxypropylen Diamine	ErC50 (Alga, 72 h): 15 mg/l (OECD 201)
2,4,6-tris(dimethylaminomethyl)phenol	EC 50 (Desmodesmus subspicatus (Scenedesmus subspicatus), 72 h): 84 mg/l (OECD 201)
3-Cyclohexylaminopropylamine	EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 8,72 mg/l (OECD 201)

Toxicity to microorganisms

Product: No data available.

Specified substance(s):

Mixed Cycloaliphatic Amines	EC 50 (Alga, 3 h): 186,7 mg/l
benzyl alcohol	EC 50 (Bacteria, 0,5 h): 71,4 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s):
4,4'-Diaminodicyclohexylmethane
NOEC (Daphnia magna, 21 d): 4 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):
3-Cyclohexylaminopropylamine
NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 1 mg/l (OECD 201)

Toxicity to microorganisms

Product: No data available.

Specified substance(s):
2,4,6-tris(dimethylaminomethyl)phenol
NOEC (activated sludge, 28 d): 2 mg/l (OECD 301 D)

Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):
Mixed Cycloaliphatic Amines
(28 d): 0 % The product is not biodegradable.
benzyl alcohol
(28 d, OECD 301 C): 92 - 96 % Readily biodegradable
4,4'-Diaminodicyclohexylmethane
(28 d, OECD 302 B): < 10,0 % The product is not biodegradable.
Polyoxypropylen Diamine
(28 d, OECD 301 B): 0 % The product is not biodegradable.
(28 d, OECD 301 D): 4 % The product is not biodegradable.
2,4,6-tris(dimethylaminomethyl)phenol
3-Cyclohexylaminopropylamine
(28 d, OECD 301 B): 90 % The 10 day time window criterion is not fulfilled.
Readily biodegradable

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Product: No data available.

Specified substance(s):
Mixed Cycloaliphatic Amines
Cyprinus carpio (Carp), Does not bioaccumulate.
4,4'-Diaminodicyclohexylmethane
In view of the relatively low octanol / water coefficients of distribution (see Chapter 9), no significant accumulation of the substance in organisms is to be expected.

2,4,6-tris(dimethylaminomethyl) phenol Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: No data available. Not required by safety or application considerations.

Mobility in soil:

Product No data available.

Specified substance(s):

4,4'-Diaminodicyclohexylmethane The substance will occur mainly in bodies of water due to its environmental distribution characteristics. The soil mobility of the substance is only minimally affected by adsorption to soil components. The effects of light decompose the substance rapidly in the atmosphere.

Other adverse effects: No further ecotoxicological data are available.

13. Disposal considerations

Disposal methods: With respect to local regulations, e.g. dispose of to suitable waste incineration plant.

Contaminated Packaging: No data available.

14. Transport information

International Regulations

IATA-DGR

UN/ID No. : UN 2735
Proper shipping name : Amines, liquid, corrosive, n.o.s.
(Polyoxypropylen Diamine, 3-Diethylamino-1-Propylamine, Phenol, Dodecyl)
Class : 8
Packing group : II
Labels : 8
Packing instruction (cargo aircraft) : 855
Packing instruction (passenger aircraft) : 851
Environmentally hazardous : yes

IMDG-Code

UN number or ID number : UN 2735
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.
(Polyoxypropylen Diamine, 3-Diethylamino-1-Propylamine, Phenol, Dodecyl)
Class : 8
Packing group : II
Labels : 8
EmS Code : F-A, S-B
Marine pollutant : yes
Remarks : Keep separate from acids.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. Regulatory information

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

Inventory Status:

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	Not in compliance with the inventory.
Japan (ENCS) List:	On or in compliance with the inventory
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory

16. Other information, including date of preparation or last revision

Issue Date: 01.05.2025

Version #: 1.0

Further Information: No data available.

Revision Information: Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Notice to Reader: The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.