

**Safety Data Sheet
in accordance with HSNO**

Printing Date: 02.12.2024

Version Number: 1.0

Revision Date: 02.12.2024

1 Identification of the substance or mixture and of the supplier

Product identifier:

Trade name: ***POLARSET NC 300***

Relevant identified uses of the substance or mixture, and uses advised against: No further relevant information available.

Relevant identified uses of the substance or mixture: Concrete Admixtures

Identified uses advised against: No further relevant information available.

Details of the supplier of the safety data sheet:

Manufacturer/supplier:

GCP Australia Pty. Ltd.
14 Colebard Street West
Archerfield, Queensland 4108
Australia

Tel. +61 7-3275-7500

Fax +61 7-3275-7501

Further information obtainable from: APMSDS@gcpat.com

Emergency telephone number:

CHEMWATCH - 00 800 2436 2255 (free call)

National Poison Centre - 0800 764-766 (0800 POISON)

2 Hazards identification

Classification of the substance or mixture:

Acute oral toxicity Category 4 H302 Harmful if swallowed.

Serious eye damage Category 1 H318 Causes serious eye damage.

Label elements:

GHS label elements The product is classified and labelled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS05 GHS07

Signal word Danger

Hazard-determining components of labelling:

Calcium nitrate tetrahydrate

Sodium thiocyanate

Hazard statements

Harmful if swallowed.

Causes serious eye damage.

Precautionary statements

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear eye protection / face protection.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

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Rinse mouth.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Information concerning particular hazards for human and environment:

Description of Classification:

Classified as Hazardous Substance according to the criteria of the New Zealand Hazardous Substance New Organisms legislation.

HSNO Group Standard : Construction Products (Subsidiary Hazard) Group Standard 2017

HSNO Approval Number : HSR002544

Other hazards:

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/Information on ingredients

Chemical characterization: Mixture:

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous components:

13477-34-4	Calcium nitrate tetrahydrate Serious eye damage Category 1, H318 Acute oral toxicity Category 4, H302	50-<100%
540-72-7	Sodium thiocyanate Serious eye damage Category 1, H318 Acute oral toxicity Category 4, H302; Acute dermal toxicity Category 4, H312; Acute inhalation toxicity Category 4, H332 Hazardous to the aquatic environment chronic Category 3, H412	5-<10%
102-71-6	Triethanolamine Skin irritation Category 2, H315; Eye irritation Category 2, H319; Specific target organ toxicity - single exposure Category 3, H335	1-<3%

4 First aid measures

General information: Get medical advice/attention if you feel unwell.

After inhalation:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF INHALED: Call a doctor if you feel unwell.

After skin contact: Immediately rinse with water.

After eye contact: Rinse cautiously with water for several minutes.

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

Information for doctor:

Most important symptoms and effects, both acute and delayed: Harmful if swallowed.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

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5 Fire fighting measures

Special hazards arising from the substance or mixture: No further relevant information available.

Additional information: Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.

Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up:

Use neutralising agent.

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

HANDLING

Precautions for safe handling:

Store in a well-ventilated place. Keep container tightly closed.

Use only outdoors or in a well-ventilated area.

Information about fire - and explosion protection: No special measures required.

STORAGE

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions:

Protect from frost.

Store in a dry place.

Keep cool.

Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see section 7.

Ingredients with limit values that require monitoring at the workplace:

540-72-7 Sodium thiocyanate

WES (Australia)	Long-term value: 5 mg/m ³ as CN, Sk
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WEL (Great Britain)	Long-term value: 5 mg/m ³ as CN; Sk
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102-71-6 Triethanolamine

WES (New Zealand)	Long-term value: 1 mg/m ³
WES (Australia)	Long-term value: 5 mg/m ³ Sen

Additional information: Based on the lists valid at the date of SDS creation.

PERSONAL PROTECTIVE EQUIPMENT

General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Protective gloves.

Material of gloves:

Nitrile rubber.

PVC gloves

Eye protection:



Safety glasses with side shield protection.



A face shield should also be worn if there is potential exposure to splash or spray.

Body protection:

Use personal protective equipment as required.

Take off contaminated clothing.

9 Physical and chemical properties

GENERAL INFORMATION

Appearance:

Form:

Liquid.

Colour:

Clear.

Odour:

Characteristic.

Odour threshold:

Not determined.

pH-value (~) at 20 °C:

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Change in conditions:-

Melting point/freezing point:

Undetermined.

Initial boiling point and boiling range:

Not determined.

Flash point:

Not applicable.

Flammability (solid, gas):

Not applicable.

Auto-ignition temperature:

Not determined.

Decomposition temperature:

Not determined.

Ignition temperature:

Not determined.

Explosive properties:

Product does not present an explosion hazard.

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Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	1.5 g/cm ³
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in/Miscibility with:-	
Water:	Fully miscible.
Partition coefficient: n-octanol/water:	Not determined.
VISCOSITY	
Dynamic:	Not determined.
Kinematic:	Not determined.
Molecular weight	Not determined.

Other information: No further relevant information available.

10 Stability and reactivity

Reactivity:

Stable under normal conditions.
No further relevant information available.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions

No dangerous reactions known.
No further relevant information available.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

Information on toxicological effects:
ACUTE TOXICITY Harmful if swallowed.

LD/LC50 values relevant for classification:
13477-34-4 Calcium nitrate tetrahydrate

Oral	LD50	500 mg/kg (rat)
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102-71-6 Triethanolamine

Oral	LD50	5,300 mg/kg (guinea pig)
		6,400 mg/kg (rat - male)
Dermal	LD50	>10,000 mg/kg (rabbit)
	LC50, 96h	11,800 mg/l (fish)

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Causes serious eye damage.

Ingestion: Harmful if swallowed.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

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Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Additional toxicological information:
102-71-6 Triethanolamine

NOEC/NOEL | 16 mg/l (crustaceans) (Chronic NOEC)

12 Ecological information

Toxicity:
AQUATIC TOXICITY
102-71-6 Triethanolamine

EC50, 72h | 512 mg/l (algae)

EC50, 48h | 609.88 mg/l (daphnia magna)

Persistence and degradability: No further relevant information available.

BEHAVIOUR IN ENVIRONMENTAL SYSTEMS
Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

ADDITIONAL ECOLOGICAL INFORMATION
General notes: Must not reach sewage water or drainage ditch undiluted or unneutralised.

Results of PBT and vPvB assessment:
PBT: Not applicable.

vPvB: Not applicable.

13 Disposal considerations

Waste treatment methods:
Recommendation:


Must not be disposed together with household garbage. Do not allow product to reach sewage system.

UNCLEANED PACKAGING
Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number

NZS, IMDG, IATA

Not Regulated

UN proper shipping name

NZS, IMDG, IATA

Not Regulated

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Transport hazard class(es)

 NZS, ADN, IMDG, IATA
Class

Not Regulated

Packing group

NZS, IMDG, IATA

Not Regulated

Environmental hazards:

Not applicable.

Special precautions for user:

Not applicable.

**Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code:**

Not Regulated

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

See Section 2 for hazard identification.

HSNO Group Standard Construction Products (Subsidiary Hazard) Group Standard 2017

HSNO Approval Number HSR002544

HSNO Approval numbers

None of the ingredients is listed.

Registered in the international inventory lists: NZIoC (New Zealand)

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS:

 EHS Department,
 Asia Pacific Region
 GCP Applied Technologies Operations Center, Inc.,
 CTP Asean Tower, Upper Penthouse, Unit 1,
 2397 Asean Drive, Spectrum District, Filinvest Alabang, 1781,
 Muntinlupa City, Philippines
 Tel: + 63 2 8271 2300

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