

Safety Data Sheet according to WHS Regulations

Printing Date: 28.09.2022

Version Number: 1.0

Revision Date: 28.09.2022

1 Identification

Product identifier:
Trade name: DCI-N
Relevant identified uses of the substance or mixture, and uses advised against:

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

Further information obtainable from:

Tel. +61 7-3275-7500
 Fax +61 7-3275-7501
 email: msds.gcp@gcpat.com

Emergency telephone number: After hours - Tel. No. 1800 039 008 (AU) or +61 7-3275-7500

2 Hazard(s) Identification

Classification of the substance or mixture:

Acute Tox. 4 H302 Harmful if swallowed.
 Eye Irritation 2A H319 Causes serious eye irritation.

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

Hazard pictograms


GHS07

Signal word Warning

Hazard-determining components of labelling:

Calcium nitrite
 Calcium nitrate

Hazard statements

Harmful if swallowed.
 Causes serious eye irritation.

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.
 Rinse mouth.
 If eye irritation persists: Get medical advice/attention.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Contact with acids liberates toxic gas.

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Information concerning particular hazards for human and environment:**Safety phrases:****Ingestion:**

Large amounts of nitrates/nitrites may cause nausea, vomiting, cyanosis (due to methemoglobin formation), abnormally slow respiration, collapse and coma.

Description of Classification: Classified as hazardous according to the criteria of Safe Work Australia.

Other hazards:**Results of PBT and vPvB assessment:**

PBT: Not applicable.

vPvB: Not applicable.

3 Composition and Information on Ingredients**Chemical characterization: Mixture:**

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

Dangerous components:

13780-06-8	Calcium nitrite	Acute Tox. 3, H301 Eye Irritation 2A, H319	30-<50%
107-41-5	2-methylpentane-2,4-diol	Skin Irrit. 2, H315; Eye Irritation 2A, H319 Flam. Liq. 4, H227	5-<10%
10124-37-5	Calcium nitrate	Eye Dam. 1, H318 Acute Tox. 4, H302	1-<3%

Additional information:

Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication 'List of Designated Hazardous Substances' or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication 'Approved Criteria for Classifying Hazardous Substances'.

4 First Aid Measures**Description of first aid measures:****After inhalation:**

IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

Irritating to eyes.

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

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5 Fire Fighting Measures

Suitable extinguishing agents:

This material, if dried to a solid powder-like form, will become an oxidizer, which may provide oxygen to combustible materials.

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

Advice for firefighters:

Protective equipment: Wear self-contained respiratory protective device.

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.

Avoid contact with eyes.

Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up: 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:

Ensure good interior ventilation.

Do not mix directly with acidic materials. Do not mix directly with other admixtures. Hazardous gas may form.

Store in original containers.

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

Use only outdoors or in a well-ventilated area.

Conditions for safe storage, including any incompatibilities:

STORAGE

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

Further information about storage conditions:

Store in a dry place.

Protect from frost.

Store in cool, dry conditions in well sealed receptacles.

Keep cool.

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

8 Exposure controls and personal protection

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

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Control parameters:**Ingredients with limit values that require monitoring at the workplace:****107-41-5 2-methylpentane-2,4-diol**

WES (Australia)	Peak limitation: 121 mg/m ³ , 25 ppm
WEL (Great Britain)	Short-term value: 123 mg/m ³ , 25 ppm Long-term value: 123 mg/m ³ , 25 ppm
REL (USA)	Peak limitation: 125 mg/m ³ , 25 ppm
TLV (USA)	Short-term value: 50* 10** ppm Long-term value: 25* ppm *vapor **inh. fraction, aerosol only

Additional information: Based on the lists valid at the date of SDS creation.**Exposure controls:****PERSONAL PROTECTIVE EQUIPMENT****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Do not add amines to this product. Cancer-causing nitrosamines may be formed. Direct contact with other admixtures, wash water and any other material causing the pH to fall below specification can result in the formation of NOX gas creating a hazardous situation. Nitric oxide (NO) is a colourless, odourless gas. Nitrogen dioxide (NO₂) is a reddish-brown gas with a highly pungent, bleach-like odour. Exposure can cause irritation to eyes and respiratory system and affect the central nervous and cardiovascular systems. Severe overexposure can be fatal. This hazard does not exist when mixed with other admixtures in concrete.

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: 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 and wash before reuse.

9 Physical and Chemical Properties**Information on basic physical and chemical properties:****GENERAL INFORMATION****Appearance:**

Form:	Liquid.
Colour:	Light brown
Odour:	Characteristic.
Odour threshold:	Not determined.

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pH-value (~) at 20 °C:	10.8
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.
Ignition temperature:	260 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
EXPLOSION LIMITS	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	1.3 g/cm ³
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in/Miscibility with:-	
Water:	Fully miscible. Not determined.
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.

Chemical stability:

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

Possibility of hazardous reactions

Whilst not classified as oxidising, if allowed to dry out and come into contact with combustible material, this product may cause fire.

Although not classified as dangerous, this product can produce toxic and very toxic fumes in the presence of acids or in fire situations.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides.

Nitrogen oxides (NO_x).

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11 Toxicological Information

Information on toxicological effects:

ACUTE TOXICITY

LD/LC50 values relevant for classification:

13780-06-8 Calcium nitrite

Oral | LD50 | 283 mg/kg (rat)

10124-37-5 Calcium nitrate

Oral | LD50 | 302 mg/kg (rat)

Primary irritant effect

Serious eye damage/irritation Causes serious eye irritation.

Ingestion: Harmful if swallowed.

Other information :

The product was classified according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

12 Ecological Information

Toxicity:

AQUATIC TOXICITY No further relevant information available.

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: Not known to be hazardous to water.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No further relevant information available.

13 Disposal considerations

Waste treatment methods:

Recommendation:



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

Refer to State Land Waste Authority for disposal considerations.

UNCLEANED PACKAGING

Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number

ADG, IMDG, IATA

Not Regulated

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UN proper shipping name ADG, IMDG, IATA	Not Regulated
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Transport hazard class(es) ADG, ADN, IMDG, IATA Class	Not Regulated
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Packing group ADG, IMDG, IATA	Not Regulated
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Environmental hazards:	Not applicable.
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Special precautions for user:	Not applicable.
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Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not Regulated
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15 Regulatory information

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

See Section 2 for hazard identification.

Australia: Priority Existing Chemicals

None of the ingredients is listed.

National regulations:

Other regulations, limitations and prohibitive regulations: All ingredients are listed on AICS.

Registered in the international inventory lists: AICS (Australia)

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.

Relevant phrases:

H227 Combustible liquid.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

Department issuing SDS:

EHS Department,
Asia Pacific Region
SCIP, Canlubang, Calamba City, Laguna
Philippines 4028
Tel: +63 (02) 8236-6820 to 24

Contact:

The first date of preparation: 09.10.2019

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