

## Safety Data Sheet in accordance with HSNO

Date of issue: 03.09.2025

Version Number: 1.0

Revision Date: 03.09.2025

### 1 Identification of the substance or mixture and of the supplier

#### Other means of identification

Trade name: **CHRYSO®Daraset 900 EMX**

#### 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](mailto: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

Calcium nitrite

#### Hazard statements

Harmful if swallowed.

Causes serious eye damage.

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## in accordance with HSNO

Date of issue: 03.09.2025

Version Number: 1.0

Revision Date: 03.09.2025

**Trade name: *CHRYSO®Daraset 900 EMX***

(Contd. of page 1)

**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.

Rinse mouth.

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

**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 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%
13780-06-8	Calcium nitrite	Acute oral toxicity Category 3, H301 Eye irritation Category 2, H319	5-<10%

### 4 First aid measures

**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.

(Contd. on page 3)

**Safety Data Sheet**  
in accordance with HSNO

Date of issue: 03.09.2025

Version Number: 1.0

Revision Date: 03.09.2025

**Trade name: *CHRYSO®Daraset 900 EMX***

(Contd. of page 2)

**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.

**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.**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:**

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.

NZ  
(Contd. on page 4)

# Safety Data Sheet in accordance with HSNO

Date of issue: 03.09.2025

Version Number: 1.0

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**Trade name: *CHRYSO®Daraset 900 EMX***

(Contd. of page 3)

## 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.

### 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/personal protection

**Appropriate engineering controls** No further data; see section 7.**Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**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.

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.).

(Contd. on page 5)

NZ

## Safety Data Sheet in accordance with HSNO

Date of issue: 03.09.2025

Version Number: 1.0

Revision Date: 03.09.2025

**Trade name:** *CHRYSO®Daraset 900 EMX*

(Contd. of page 4)

**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 brown

**Odour:**

Characteristic.

**Odour threshold:**

Not determined.

**pH-value (~) at 20 °C:**

7

**Change in conditions:-**

**Melting point/Melting range:**

Undetermined.

**Initial boiling point and boiling range:**

Not determined.

**Flash point:**

Not applicable.

**Flammability**

Not applicable.

**Auto-ignition temperature:**

Not determined.

**Decomposition temperature:**

Not determined.

**Ignition temperature:**

Not determined.

**Explosive properties:**

Product does not present an explosion hazard.

**Lower:**

Not determined.

**Upper:**

Not determined.

**Vapour pressure:**

Not determined.

**Density at 20 °C:**

1.5 g/cm<sup>3</sup>

**Vapour density:**

Not determined.

**Evaporation rate:**

Not determined.

**Solubility in/Miscibility with:-**

**Water:**

Fully miscible.

**Partition coefficient: n-octanol/water:** Not determined.

(Contd. on page 6)

## Safety Data Sheet in accordance with HSNO

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(Contd. of page 5)

### VISCOSITY

**Dynamic:** Not determined.  
**Kinematic:** Not determined.  
**Molecular weight** Not determined.

### Other information:

**Particle characteristics** Not applicable.  
**Physical state** Liquid

## 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  
 Nitrogen oxides.

## 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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##### 13780-06-8 Calcium nitrite

Oral	LD50	283 mg/kg (rat)
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### Primary irritant effect

**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.

(Contd. on page 7)

## Safety Data Sheet in accordance with HSNO

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**Trade name:** *CHRYSO®Daraset 900 EMX*

(Contd. of page 6)

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

**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.

### 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:** 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

(Contd. on page 8)

## Safety Data Sheet in accordance with HSNO

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(Contd. of page 7)

### Transport hazard class(es)

NZS, ADN, IMDG, IATA  
Class

Not Regulated

### Packing group

NZS, IMDG, IATA

Not Regulated

### Environmental hazards:

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

**The first date of preparation:** 03.09.2025

**Number of revision times and the latest revision date:** 1.0 / 03.09.2025