Safety Data Sheet
according to WHS Regulations

Date of issue: 03.09.2025 **Version Number: 1.0** **Revision Date: 03.09.2025**

1 Identification

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

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 toxicity - oral – Category 4 H302 Harmful if swallowed.
Eye damage/irritation – 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 (50-<100 %)
Calcium nitrite (5-<10 %)

Hazard statements
Harmful if swallowed.
Causes serious eye damage.
Precautionary statements
Wash thoroughly after handling.

(Contd. on page 2)

Safety Data Sheet
according to WHS Regulations

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)

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.

Additional information:
Contact with acids liberates toxic gas.

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:			
13477-34-4	Calcium nitrate tetrahydrate	Eye damage/irritation – Category 1, H318 Acute toxicity - oral – Category 4, H302	50-<100%
13780-06-8	Calcium nitrite	Acute toxicity - oral – Category 3, H301 Eye damage/irritation – Category 2A, H319	5-<10%

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

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.

(Contd. on page 3)

Safety Data Sheet
according to WHS Regulations

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.

(Contd. on page 4)

Safety Data Sheet
according to WHS Regulations

Date of issue: 03.09.2025 **Version Number: 1.0** **Revision Date: 03.09.2025**

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 and 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)

Safety Data Sheet
according to WHS Regulations

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 and wash before reuse.

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/cm³
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
according to WHS Regulations

Date of issue: 03.09.2025 **Version Number: 1.0** **Revision Date: 03.09.2025**

Trade name: *CHRYSO®Daraset 900 EMX*

(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)
13780-06-8 Calcium nitrite		
Oral	LD50	283 mg/kg (rat)

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
according to WHS Regulations

Date of issue: 03.09.2025 **Version Number: 1.0** **Revision Date: 03.09.2025**

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.

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: 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.

Refer to State Land Waste Authority for disposal considerations.

UNCLEANED PACKAGING

Recommendation: Disposal must be made according to official regulations.

(Contd. on page 8)

Safety Data Sheet
according to WHS Regulations

Trade name: *CHRYSO®Daraset 900 EMX*

(Contd. of page 7)

14 Transport information

UN-Number **ADG, IMDG, IATA**	Not Regulated
UN proper shipping name **ADG, IMDG, IATA**	Not Regulated
Transport hazard class(es) **ADG, ADN, IMDG, IATA** **Class**	Not Regulated
Packing group **ADG, 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.

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:
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

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,

(Contd. on page 9)

Safety Data Sheet
according to WHS Regulations

Date of issue: 03.09.2025 **Version Number: 1.0** **Revision Date: 03.09.2025**

Trade name: *CHRYSO®Daraset 900 EMX*

(Contd. of page 8)

Muntinlupa City, Philippines
Tel: + 63 2 8271 2300

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