

**Safety Data Sheet**

Date of issue: 09/17/2025

Version Number 1.0

Reviewed on 04/09/2025

**1 Identification****Product identifier**Trade name: ***Chryso®Polarset*****Other means of identification**

SDS ID Number: 60147

**Relevant identified uses of the substance or mixture, and uses advised against:**

Specialty construction product. Not intended for other uses.

**Identified uses advised against:****Details of the supplier of the safety data sheet****Manufacturer/Supplier:**Chryso Inc.  
12770 Merit Drive Suite 750  
Dallas, TX 75251 USAGCP Canada, Inc.  
294 Clements Road W.  
Ajax, Ontario L1S 3C6 Canada**Information department:**Environmental Health & Safety:  
USA: +1-617-876-1400 (24 hours)  
+1 877-423-6491 (8AM - 5PM)  
CAN: 1-905-683-8561 (24 hours)  
Email address: [sds.chryso@saint-gobain.com](mailto:sds.chryso@saint-gobain.com)**Emergency telephone number:**

Transport Emergency: Chemtrec: +1-800-424-9300 (24 hours)

**2 Hazard(s) identification****Classification of the substance or mixture**Acute toxicity - oral 4 H302 Harmful if swallowed.  
Eye damage 1 H318 Causes serious eye damage.**Label elements:** The product is classified and labeled according to the Globally Harmonized System (GHS)**Hazard pictograms**

GHS05 GHS07

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**Signal word** Danger**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.

Rinse mouth.

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

**Hazard Classification:****NFPA ratings (scale 0 - 4)**

Health = 3

Fire = 1

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

Health = \*3

Flammability = 1

Reactivity = 0

**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 the hazardous substance(s) listed below with additional nonhazardous ingredients.**Hazardous components:**

10124-37-5	Calcium nitrate	15-<22%
13780-06-8	Calcium nitrite	15-<22%
111-46-6	Diethylene glycol	3-<5%
105-59-9	2,2'-(methylimino)diethanol	1-<3%

**Additional information:** Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.USGHS  
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**4 First-aid measures****Description of 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 wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

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

**After swallowing:**

Rinse mouth.

Do NOT induce vomiting.

**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****Extinguishing media****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**

Combustion products can include toxic gases such as carbon monoxide and smoke.

**Advice for firefighters**

**Protective equipment:** Wear personal protective equipment.

**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**

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:**

Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.

Use neutralizing agent.

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**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****Precautions for safe handling**

Avoid contact with eyes, skin and clothing.

Do not take internally.

Practice good personal hygiene to avoid ingestion.

Use only with adequate ventilation.

Wash clothing before reuse.

FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

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.

**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:**

Keep receptacle tightly sealed.

Protect from frost.

Store in cool, dry conditions in well sealed original receptacles.

**Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection****Control parameters****Components with limit values that require monitoring at the workplace:****111-46-6 Diethylene glycol**WEEL (USA) | Long-term value: 10 mg/m<sup>3</sup>**Additional information:**

The lists that were valid during the creation were used as basis.

Canadian employers must consult the exposure limits in their province.

**Exposure controls****Appropriate engineering controls** No further data.

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**Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Do not add amines to this product. Cancer-causing nitrosamines may be formed. Direct contact with other admixtures, washwater and any other material causing the pH to fall below specification can result in the formation of NO<sub>x</sub> gas creating a hazardous situation. Nitric oxide (NO) is a colorless, odorless gas. Nitrogen dioxide (NO<sub>2</sub>) is a reddish-brown gas with a highly pungent, bleach-like odor. Exposure can cause irritation to eyes and respiratory system and effect the central nervous and cardiovascular systems. Severe overexposure can be fatal. This hazard does not exist when mixed with other admixtures in concrete.

**Breathing equipment:**

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:**

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

**Material of gloves**

Nitrile rubber.

Rubber or other impervious gloves should be worn to prevent skin contact.

**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****Information on basic physical and chemical properties****General Information****Physical state**

Liquid

**Color:**

Blue/green

**Odor:**

Mild paint-like odor

**Odor threshold:**

Not applicable.

**Boiling point/Boiling range:**

Undetermined.

**Flammability:**

Not applicable.

**Lower:**

Not applicable.

**Upper:**

Not applicable.

**Flash point:**

Not applicable.

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<b>Method:</b>	
<b>Auto igniting:</b>	Undetermined.
<b>Decomposition temperature:</b>	Not applicable under normal storage conditions.
<b>pH-value (~) at 20 °C (68 °F):</b>	9
<b>Viscosity:</b>	
<b>Kinematic:</b>	Not determined.
<b>Dynamic:</b>	Not determined.
<b>Solubility in / Miscibility with Water:</b>	Fully miscible.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Vapor pressure:</b>	Not determined.
<b>Vapor pressure:</b>	
<b>Density: (~) at 20 °C (68 °F)</b>	1.4 g/cm <sup>3</sup> (11.683 lbs/gal)
<b>Vapor density</b>	Not determined.
<b>Particle characteristics</b>	Not applicable.

**Other information**

<b>Appearance:</b>	
<b>Form:</b>	Liquid
<b>Important information on protection of health and environment, and on safety.</b>	
<b>Ignition temperature:</b>	Product is not self-igniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Change in condition</b>	
<b>Evaporation rate</b>	Not applicable.
<b>Molecular weight</b>	Not determined.

**10 Stability and reactivity****Reactivity**

Stable under normal conditions.  
No further relevant information available.

**Chemical stability**

**Thermal decomposition:** 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

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**11 Toxicological information****Information on toxicological effects****Acute toxicity:****LD/LC50 values relevant for classification:****10124-37-5 Calcium nitrate**

Oral | LD50 | 302 mg/kg (rat)

**13780-06-8 Calcium nitrite**

Oral | LD50 | 283 mg/kg (rat)

**105-59-9 2,2'-(methylimino)diethanol**

Oral | LD50 | 4,680 mg/kg (rat) (OECD 401)

**Primary irritant effect:****on the skin:** Does not cause irritation.**on the eye:** Causes serious eye damage.**inhalation:** No irritating effect expected**Ingestion:** Harmful if swallowed.**Additional toxicological information:****Carcinogenic categories****IARC (International Agency for Research on Cancer) Human Carcinogenicity:****Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable**

None of the ingredients are listed.

**NTP (National Toxicology Program)****K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**

None of the ingredients are listed.

**12 Ecological information****Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Additional ecological information:****General notes:** Must not reach bodies of water or drainage ditch undiluted or unneutralized.

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**13 Disposal considerations****Disposal methods:**

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing product for disposal. Dispose of waste in accordance with all applicable regulations.

**Recommendation:**

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

**Uncleaned packagings:****Recommendation:**

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

**14 Transport information****UN-Number**

DOT, IMDG, IATA Not applicable.

**UN proper shipping name**

DOT, IMDG, IATA Not applicable.

**Transport hazard class(es)**

DOT, IMDG, IATA  
Class Not applicable.

**Packing group**

DOT, IMDG, IATA Not applicable.

**Environmental hazards:** Not applicable.

**Transport/Additional information:**

DOT  
Remarks: Not Regulated.

**UN "Model Regulation":** Not applicable.

**15 Regulatory information****Other regulations in domestic and foreign countries****SARA (Superfund Amendments and Reauthorization Act)****Section 302/304 (extremely hazardous substances):**

None of the ingredients is listed.

**Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):**

10124-37-5	Calcium nitrate	19.1%
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**SARA Section 312/Tier I & II Hazard Categories:**

Health Hazard - Acute toxicity (any route of exposure)

Health Hazard - Serious eye damage or eye irritation

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**North America Chemical Inventory Status****TSCA (Toxic Substances Control Act - United States):**

All ingredients are listed or exempt from listing unless otherwise noted below.

**Canadian Domestic Substances List (DSL):**

All ingredients are listed or exempt from listing unless otherwise noted below.

**Right to Know Ingredient Disclosure:**

7732-18-5 | Water

**California Proposition 65: (Substances <0.1% unless noted in Section 3)****Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

107-21-1 | Ethylene glycol

**Volatile Organic Compounds (VOC) reported per the Emission Standards.**

If no g/L value is provided this product is not subject to above standard.

**16 Other information**

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

**Department issuing SDS:**

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USA: +1-617-876-1400 (24 hours)

+1 877-423-6491

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