

Safety Data Sheet
acc. to OSHA HCS

Date of issue: 01/14/2026

Version Number 1.0

Reviewed on 01/14/2026

1 Identification

Product identifier

Trade name: ***Chryso®Polarset***

Other means of identification

SDS ID Number: SD60147

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Chryso, Inc.
12770 Merit Drive, Suite 750
Dallas, TX 75251 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Customer Service
+1-877-423-6491
Safety Data Sheets
Email address: 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:

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

Hazard pictograms



GHS05 GHS07

Signal word Danger

Hazard-determining components of labeling:

Calcium nitrite
Calcium nitrate

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Diethylene glycol

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 description:**Eye Contact:**

Strong irritant with the danger of severe eye injury.

Causes serious eye damage.

Skin Contact:

Causes skin irritation.

Toxic in contact with skin.

Harmful in contact with skin and if swallowed.

Causes burns.

Ingestion:

Diethylene Glycol has been observed to cause effects on the central nervous system, kidneys, and liver. Symptoms include headache, nausea, and abdominal discomfort, dizziness and slurred speech.

Diethylene Glycol has caused toxicity to the fetus and has caused birth defects in animal studies.

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

Additional target organ effects:

May cause reproductive effects.

May cause central nervous system depression.

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

Health = 3

Fire = 1

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *3

Flammability = 1

Reactivity = 0

Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

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Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

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	10-30%
13780-06-8	Calcium nitrite	10-30%
111-46-6	Diethylene glycol	1-5%
105-59-9	2,2'-(methylimino)diethanol	1-5%

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.

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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.

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.

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. Do not apply where odors may penetrate living areas. To avoid skin contact, use gloves or barrier creams. Wear work clothes with long sleeves if skin contact is possible. Promptly cleanse hands with waterless hand cleaner, clean fingernails and wash with soap and water after handling. Do not use solvents to clean skin. FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

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.

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Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

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:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

111-46-6 Diethylene glycol

WEEL	Long-term value: 10 mg/m ³
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Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Appropriate engineering controls No further data.

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_x gas creating a hazardous situation. Nitric oxide (NO) is a colorless, odorless gas. Nitrogen dioxide (NO₂) 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.).

A chemical cartridge respirator with organic vapor cartridge is required. A dust/mist cartridge or prefilter may be needed in addition to control exposure to mist. Supplied air respirator (SCBA) is required at exposure levels above the capabilities of a chemical cartridge respirator.

Protection of hands:

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

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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

Melting point/Freezing point:

Undetermined.

Flammability:

Not applicable.

Explosion limits:

Lower:

Not applicable.

Upper:

Not applicable.

Flash point:

(Inorganic salt in water solution.)

Method:

Auto igniting:

Undetermined.

pH-value (~) at 20 °C (68 °F):

9

Viscosity:

Kinematic:

Not determined.

Dynamic:

Not determined.

Solubility in / Miscibility with

Water:

Fully miscible.

Partition coefficient (n-octanol/water):

Not determined.

Vapor pressure:

Density: (~) at 20 °C (68 °F)

1.35 g/cm³ (11.266 lbs/gal)

Vapor density

Not determined.

Particle characteristics

Not applicable.

Other information

Appearance:

Form:

Liquid

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Important information on protection of health and environment, and on safety.

Ignition temperature:

Product is not self-igniting.

Danger of explosion:

Product does not present an explosion hazard.

Change in condition

Evaporation rate

Not applicable.

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:

Avoid direct contact with other admixtures and any other material which could cause the pH of this product to fall below 8.0. Those conditions can result in the formation of Nitrogen oxide (NO, NO₂) gas, creating a hazardous situation.

Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides

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)
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13780-06-8 Calcium nitrite

Oral	LD50	283 mg/kg (rat)
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105-59-9 2,2'-(methylimino)diethanol

Oral	LD50	4,680 mg/kg (rat) (OECD 401)
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Primary irritant effect:

on the skin: Does not cause irritation.

Ingestion: Harmful if swallowed.

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Additional Toxicological Information:

Interactive effects No interactive effects between components are known.

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.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

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.

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:

Do not dry this material. If dried to a solid powder-like form, this material would be an oxidizer and classified as a reactive waste D001 according to the EPA (40 CFR § 261). Liquid waste is not defined as hazardous by EPA.

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

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

Not applicable.

Transport/Additional information:

DOT

Remarks:

Unregulated.

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

North America Chemical Inventory Status**TSCA (Toxic Substances Control Act - United States): (Substances not listed)**

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

Canadian Domestic Substances List (DSL): (Substances not listed.)

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.

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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.

Per- and polyfluoroalkyl substances (PFAS)

None of the ingredients are listed.

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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Date of previous version 12/10/2025

Date of preparation 01/14/2026

The first date of preparation 06/12/2024

Number of revision times and the latest revision date 1.0 / 01/14/2026

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