

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

Printing Date: 24.04.2026

Version Number: 1.0

Revision Date: 24.04.2026

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier:**Trade name: **Chryso®Daraset 590**

UFI: TD01-K1KM-800W-9FSQ

1.2 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.

1.3 Details of the supplier of the safety data sheet:**Manufacturer/supplier:**

Saint-Gobain Construction Chemicals UK Limited
1 Herald Way,
Coventry
CV3 2ZG

Tel : +44 (0)1327 707976

Further information obtainable from:

uk.msds@chryso.com

fds.chryso@chryso.com

1.4 Emergency telephone number:

UK: NHS 111 (Members of the public)

UK NPIS 24-hour telephone number: +44 (0)344 892 0111 (Healthcare professionals only)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture:****Classification according to Regulation (EC) No 1272/2008**

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

Eye Dam. 1 H318 Causes serious eye damage.

2.2 Label elements:**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms

GHS05 GHS07

Signal word Danger

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Hazard-determining components of labelling:

Calcium nitrate
Sodium thiocyanate

Hazard statements

H302+H332 Harmful if swallowed or if inhaled.

H318 Causes serious eye damage.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear eye protection / face protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH032 Contact with acids liberates very toxic gas.

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

Hazard description:**Ingestion:**

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

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

PBT: Not applicable

vPvB: Not applicable

SECTION 3: Composition/information on ingredients**3.2 Mixtures****Description:**

Mixture of substances listed below with non-hazardous additions.

For further information, please refer to the product technical data sheet.

Dangerous components:

CAS: 10124-37-5 EINECS: 233-332-1	Calcium nitrate Eye Dam. 1, H318 Acute Tox. 4, H302	30-<50%
CAS: 540-72-7 EINECS: 208-754-4 Index number: 615-004-00-3 Reg.nr.: 01-2119343700-47-XXXX	Sodium thiocyanate Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 Aquatic Chronic 3, H412 EUH032	5-<10%

SECTION 4: First aid measures**4.1 Description of first aid measures:**

General information: Get medical advice/attention if you feel unwell.

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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: Wash with plenty of soap and water.

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

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed: Harmful if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

SECTION 5: Firefighting measures**5.1 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.

5.2 Special hazards arising from the substance or mixture:

No further relevant information available.

5.3 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.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

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

Do not allow product to enter drains or any other watercourse. Do not allow undiluted or large quantities of the product to enter groundwater, water courses or drains.

6.3 Methods and material for containment and cleaning up:

Use neutralising agent.

Send for recovery or disposal in suitable receptacles.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Do not eat, drink or smoke when using this product.

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

Keep only in original packaging.

Use only outdoors or in a well-ventilated area.

Information about fire - and explosion protection: No special measures required.

7.2 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:

Protect from frost.

Store in a dry place.

Keep cool.

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace:

540-72-7 Sodium thiocyanate

WEL	Long-term value: 5 mg/m ³ as CN; Sk
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Additional information: Based on the lists valid at the date of SDS creation.

8.2 Exposure controls:

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

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

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.).

EN 143.

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Hand protection

Protective gloves.

EN 374.

Material of gloves:

Nitrile rubber.

PVC gloves

Penetration time of glove material:

The exact breakthrough time has to be determined by the manufacturer of the protective gloves and has to be observed.

Eye/face protection

Safety glasses with side shield protection.

EN 166.

Body protection:

Use personal protective equipment as required.

Take off contaminated clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:**GENERAL INFORMATION**

Physical state	Liquid
Colour:	Straw.
Odour:	Characteristic.
Odour threshold:	Not determined
Melting point/Melting range:	Undetermined
Boiling point or initial boiling point and boiling range	>100 °C
Flammability	Not applicable
Flammability Limits :	
Lower and upper explosion limit	
Lower:	Not determined
Upper:	Not determined
Flash point:	>100 °C
Method:	
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined
pH at 20 °C	9-11
VISCOSITY	
Kinematic viscosity	Not determined
Dynamic:	Not determined
Solubility	
Water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure:	Not determined

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Density and/or relative density**Density at 20 °C:**1.35-1.39 g/cm³**Vapour density:**

Not determined

Particle characteristics

Not applicable

9.2 Other information:**Appearance:****Form:**

Liquid.

Important information on protection of health and environment, and on safety:**Ignition temperature:**

Not determined

Explosive properties:

Product does not present an explosion hazard.

Change in conditions:-**Evaporation rate:**

Not determined

Information with regard to physical hazard classes**Explosives**

Not applicable

Flammable gases

Not classified.

Aerosols

Not classified.

Oxidising gases

Not classified.

Gases under pressure

Not classified.

Flammable liquids

Not classified.

Flammable solids

Not classified.

Self-reactive substances and mixtures

Not classified.

Pyrophoric liquids

Not classified.

Pyrophoric solids

Not classified.

Self-heating substances and mixtures

Not classified.

Substances and mixtures, which emit flammable gases in contact with water

Not classified.

Oxidising liquids

Not classified.

Oxidising solids

Not classified.

Organic peroxides

Not classified.

Corrosive to metals

Not classified.

Desensitised explosives

Not classified.

SECTION 10: Stability and reactivity**10.1 Reactivity:**

Stable under normal conditions.

No further relevant information available.

10.2 Chemical stability:**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**10.3 Possibility of hazardous reactions**

Contact with acids releases irritant gases.

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.

Contact with acids liberates very toxic gas.

10.4 Conditions to avoid: No further relevant information available.**10.5 Incompatible materials:** No further relevant information available.

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10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide.

Nitrogen oxides (NO_x).

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

ACUTE TOXICITY Harmful if swallowed or if inhaled.

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	737 mg/kg
Dermal	LD50	13,095 mg/kg
Inhalative	LD50	17.9 mg/kg

10124-37-5 Calcium nitrate

Oral	LD50	302 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.

Inhalation: Harmful if inhaled.

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.

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.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity:

AQUATIC TOXICITY No further relevant information available.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

12.5 Results of PBT and vPvB assessment:

PBT: Not applicable

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vPvB: Not applicable

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12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects:

ADDITIONAL ECOLOGICAL INFORMATION

General notes: Must not reach sewage water or drainage ditch undiluted or unneutralised.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Recommendation:



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

European waste catalogue:

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 99	wastes not otherwise specified

UNCLEANED PACKAGING

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number

ADR, IMDG, IATA

Not Regulated

14.2 UN proper shipping name

ADR, IMDG, IATA

Not Regulated

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

Not Regulated

14.4 Packing group

ADR, IMDG, IATA

Not Regulated

14.5 Environmental hazards:

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not Regulated

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:****Poisons Act****Regulated explosives precursors**

None of the ingredients is listed.

Regulated poisons

None of the ingredients is listed.

Reportable explosives precursors

10124-37-5 Calcium nitrate

Listed

Reportable poisons

None of the ingredients is listed.

Directive 2012/18/EU**Named dangerous substances - ANNEX I** None of the ingredients is listed.**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

REGULATION (EU) 2019/1148**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

10124-37-5 Calcium nitrate

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**SECTION 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:

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

EUH032 Contact with acids liberates very toxic gas.

Department issuing SDS:

PRODUCT STEWARDSHIP DEPARTMENT

Saint-Gobain Construction Chemicals UK Limited
1 Herald Way,

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Coventry
CV3 2ZG

Tel: +44 (0)1753 490 000

The first date of preparation: 24.04.2026**Number of revision times and the latest revision date:** 1.0 / 24.04.2026

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