



**SAFETY DATA SHEET**  
(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Product name : CHRYSO®Premia 550  
Product code : PF000892U.

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Concrete and mortar admixture.

**1.3. Details of the supplier of the safety data sheet**

Registered company name : CHRYSO UK Ltd.  
Address : 9 Brunel Close, Drayton Fields Industrial Estate.NN11 8RB.Daventry.United Kingdom.  
Telephone : +44 (0) 1327707976. Fax : +44 (0) 1327707968.  
uk.msds@chryso.com

**1.4. Emergency telephone number : 0870 600 6266.**

Association/Organisation : National Poisons Information Service.

**SECTION 2 : HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Skin sensitisation, Category 1 (Skin Sens. 1, H317).  
Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).  
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

**2.2. Label elements**

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazard pictograms :



GHS07

Signal Word :

WARNING

Product identifiers :

EC 203-856-5           GLUTARAL  
EC 247-761-7           2-OCTYL-2H-ISOTHIAZOL-3-ONE

Hazard statements :

H317                            May cause an allergic skin reaction.  
H412                            Harmful to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P261                            Avoid breathing vapours/spray.  
P273                            Avoid release to the environment.

Precautionary statements - Response :

P333 + P313                 If skin irritation or rash occurs: Get medical advice/attention.  
P362 + P364                 Take off contaminated clothing and wash it before reuse.

**2.3. Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq$  0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances  $\geq$  0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

**CHRYSO®Premia 550 - PF000892U**

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2. Mixtures**

**Composition :**

Identification	(EC) 1272/2008	Note	%
CAS: 7631-99-4 EC: 231-554-3 REACH: 01-2119488221-41  SODIUM NITRATE	GHS07, GHS03 Wng Ox. Liq. 3, H272 Eye Irrit. 2, H319		2.5 <= x % < 10
CAS: 1120-24-7 EC: 214-302-7 REACH: 01-2119485519-23  DECYLDIMETHYLAMINE	GHS07, GHS05, GHS09 Dgr Acute Tox. 4, H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 1		0 <= x % < 1
CAS: 111-30-8 EC: 203-856-5  GLUTARAL	GHS06, GHS05, GHS09, GHS08 Dgr Acute Tox. 3, H301 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Acute Tox. 3, H331 Resp. Sens. 1, H334 STOT SE 3, H335 Aquatic Chronic 2, H411 Aquatic Acute 1, H400 M Acute = 1	[1]	0 <= x % < 0.1
CAS: 26530-20-1 EC: 247-761-7  2-OCTYL-2H-ISOTHIAZOL-3-ONE	GHS06, GHS05, GHS09 Dgr Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Acute Tox. 3, H331 STOT SE 3, H335 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		0 <= x % < 0.1

**Specific concentration limits:**

Identification	Specific concentration limits	ATE
CAS: 7631-99-4 EC: 231-554-3 REACH: 01-2119488221-41  SODIUM NITRATE	Ox. Liq. 3: H272 C>= 100% Eye Irrit. 2: H319 C>= 10%	oral: ATE = 3430 mg/kg BW
CAS: 1120-24-7 EC: 214-302-7 REACH: 01-2119485519-23  DECYLDIMETHYLAMINE	Eye Dam. 1: H318 C>= 5% Eye Irrit. 2: H319 1% <= C < 5%	dermal: ATE = 3000 mg/kg BW oral: ATE = 1100 mg/kg BW
CAS: 111-30-8 EC: 203-856-5  GLUTARAL	Skin Corr. 1B: H314 C>= 10% Skin Irrit. 2: H315 0.5% <= C < 10% Eye Dam. 1: H318 C>= 2% Eye Irrit. 2: H319 0.5% <= C < 2%	
CAS: 26530-20-1 EC: 247-761-7  2-OCTYL-2H-ISOTHIAZOL-3-ONE	Skin Sens. 1: H317 C>= 0.0015%	

**Information on ingredients :**

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.

#### SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

##### 4.1. description of first aid measures

###### In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

###### In the event of swallowing :

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Seek medical attention immediately, showing the label.

##### 4.2. Most important symptoms and effects, both acute and delayed

No data available.

##### 4.3. Indication of any immediate medical attention and special treatment needed

No data available.

#### SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

##### 5.1. Extinguishing media

No data available.

##### 5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)

- carbon dioxide (CO<sub>2</sub>)

##### 5.3. Advice for firefighters

No data available.

#### SECTION 6 : ACCIDENTAL RELEASE MEASURES

##### 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

###### For non first aid worker

Avoid any contact with the skin and eyes.

###### For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

##### 6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

##### 6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

##### 6.4. Reference to other sections

No data available.

#### SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

**CHRYSO®Premia 550 - PF000892U**

**7.1. Precautions for safe handling**

Always wash hands after handling.  
Remove and wash contaminated clothing before re-using.

**Fire prevention :**

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.  
Observe precautions stated on label and also industrial safety regulations.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

**7.2. Conditions for safe storage, including any incompatibilities**

No data available.

**Packaging**

Always keep in packaging made of an identical material to the original.

**7.3. Specific end use(s)**

No data available.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Occupational exposure limits :**

- France (INRS - ED984 / 2020-1546) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
111-30-8	0.1	0.4	0.2	0.8	-	65.66

- Poland (Dz. U. z 2018 r. poz. 917, 1000 i 1076) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
111-30-8	0.4 mg/m <sup>3</sup>	0.6 mg/m <sup>3</sup>			

- Czech Republic (Regulation No. 361/2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
111-30-8	0.2 mg/m <sup>3</sup>	0.4 mg/m <sup>3</sup>		I. S	

- Sweden (AFS 2018 :1) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
111-30-8		0.1 ppm 0.4 mg/m <sup>3</sup>		S	

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
111-30-8	0.05 ppm 0.2 mg/m <sup>3</sup>	0.05 ppm 0.2 mg/m <sup>3</sup>		Sen	

**Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

SODIUM NITRATE (CAS: 7631-99-4)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Ingestion.  
Long term systemic effects.  
20.8 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
36.7 mg of substance/m<sup>3</sup>

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Man exposed via the environment.**

Ingestion.  
Long term systemic effects.  
12.5 mg/kg body weight/day

Exposure method:  
Potential health effects:

Dermal contact.  
Long term systemic effects.

**CHRYSO®Premia 550 - PF000892U**

DNEL : 12.5 mg/kg body weight/day  
Exposure method: Inhalation.  
Potential health effects: Long term systemic effects.  
DNEL : 10.9 mg of substance/m3

## 8.2. Exposure controls

### Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

#### - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

#### - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Natural latex
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVC (polyvinyl chloride)
- Butyl Rubber (Isobutylene-isoprene copolymer)

#### - Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### Physical state

Physical state : Fluid liquid.

#### Colour

Brown

#### Odour

Odour threshold : Not stated.

Odour : Characteristic

#### Melting point

Melting point/melting range : Not relevant.

#### Freezing point

Freezing point / Freezing range : Not stated.

**CHRYSO®Premia 550 - PF000892U**

**Boiling point or initial boiling point and boiling range**

Boiling point/boiling range : Not relevant.

**Flammability**

Flammability (solid, gas) : Not stated.

**Lower and upper explosion limit**

Explosive properties, lower explosivity limit (%) : Not stated.

Explosive properties, upper explosivity limit (%) : Not stated.

**Flash point**

Flash point interval : Not relevant.

**Auto-ignition temperature**

Self-ignition temperature : Not relevant.

**Decomposition temperature**

Decomposition point/decomposition range : Not relevant.

**pH**

pH (aqueous solution) : Not stated.

pH : 6.00 .

Neutral.

**Kinematic viscosity**

Viscosity : Not stated.

**Solubility**

Water solubility : Soluble.

Fat solubility : Not stated.

**Partition coefficient n-octanol/water (log value)**

Partition coefficient: n-octanol/water : Not stated.

**Vapour pressure**

Vapour pressure (50°C) : Not relevant.

**Density and/or relative density**

Density : > 1

**Relative vapour density**

Vapour density : Not stated.

**9.2. Other information**

No data available.

**9.2.1. Information with regard to physical hazard classes**

No data available.

**9.2.2. Other safety characteristics**

No data available.

**SECTION 10 : STABILITY AND REACTIVITY**

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

Avoid :

- frost

**10.5. Incompatible materials**

No data available.

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO<sub>2</sub>)

## SECTION 11 : TOXICOLOGICAL INFORMATION

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

May cause an allergic reaction by skin contact.

#### 11.1.1. Substances

##### Acute toxicity :

DECYLDIMETHYLAMINE (CAS: 1120-24-7)

Oral route : LD50 = 1100 mg/kg  
Species : Rat

Dermal route : LD50 = 3000 mg/kg  
Species : Rabbit

SODIUM NITRATE (CAS: 7631-99-4)

Oral route : LD50 = 3430 mg/kg  
Species : Rat

Dermal route : LD50 > 5000 mg/kg  
Species : Rat

##### Skin corrosion/skin irritation :

DECYLDIMETHYLAMINE (CAS: 1120-24-7)

Corrosivity : Causes severe skin burns.  
Species : Rabbit  
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

##### Serious damage to eyes/eye irritation :

SODIUM NITRATE (CAS: 7631-99-4)

Corneal haze : Average score = 2.5  
Species : Rabbit  
Duration of exposure : 72 h

Iritis : Average score = 1  
Species : Rabbit  
Duration of exposure : 72 h

Conjunctival redness : Average score = 2.5  
Species : Rabbit  
Duration of exposure : 72 h

Conjunctival oedema : Average score = 2.5  
Species : Rabbit  
Duration of exposure : 72 h

##### Respiratory or skin sensitisation :

SODIUM NITRATE (CAS: 7631-99-4)

Local lymph node stimulation test : Non-Sensitiser.

#### 11.1.2. Mixture

No toxicological data available for the mixture.

## SECTION 12 : ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

**CHRYSO®Premia 550 - PF000892U**

## 12.1. Toxicity

### 12.1.1. Substances

#### GLUTARAL (CAS: 111-30-8)

Fish toxicity :

LC50 = 5 mg/l  
Species : *Leuciscus idus melanotus*  
Duration of exposure : 96 h

ECx > 1 mg/l

Crustacean toxicity :

EC50 = 15 mg/l  
Species : *Daphnia magna*  
Duration of exposure : 48 h

Algae toxicity :

ECr50 = 0.42 mg/l  
Factor M = 1  
Species : *Scenedesmus subspicatus*  
Duration of exposure : 72 h

#### DECYLDIMETHYLAMINE (CAS: 1120-24-7)

Fish toxicity :

LC50 = 1.13 mg/l  
Duration of exposure : 96 h  
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity :

EC50 = 0.926 mg/l  
Factor M = 1  
Species : *Daphnia magna*  
Duration of exposure : 48 h  
OECD Guideline 202 (*Daphnia* sp. Acute Immobilisation Test)

NOEC < 1 mg/l  
Species : *Daphnia magna*  
Duration of exposure : 21 days  
OECD Guideline 211 (*Daphnia magna* Reproduction Test)

Algae toxicity :

ECr50 = 0.0268 mg/l  
Factor M = 10  
Species : *Desmodesmus subspicatus*  
Duration of exposure : 72 h  
OECD Guideline 201 (Alga, Growth Inhibition Test)

EC10 mg/l  
Factor M = 1  
OECD Guideline 201 (Alga, Growth Inhibition Test)

Aquatic plant toxicity :

Duration of exposure : 72 h

#### SODIUM NITRATE (CAS: 7631-99-4)

Fish toxicity :

LC50 >= 100 mg/l

Crustacean toxicity :

Species : *Daphnia magna*

### 12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

## 12.2. Persistence and degradability

### 12.2.1. Substances

#### 2-OCTYL-2H-ISOTHIAZOL-3-ONE (CAS: 26530-20-1)



**CHRYSO®Premia 550 - PF000892U**

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

GLUTARAL (CAS: 111-30-8)  
Biodegradability : Rapidly degradable.

DECYLDIMETHYLAMINE (CAS: 1120-24-7)  
Biodegradability : Rapidly degradable.

SODIUM NITRATE (CAS: 7631-99-4)  
Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Endocrine disrupting properties**

No data available.

**12.7. Other adverse effects**

No data available.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**SECTION 14 : TRANSPORT INFORMATION**

Exempt from transport classification and labelling.

**14.1. UN number or ID number**

-

**14.2. UN proper shipping name**

-

**14.3. Transport hazard class(es)**

-

**14.4. Packing group**

-

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

-

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### - Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/643 (ATP 16)
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/849 (ATP 17)

#### - Container information:

No data available.

#### - Particular provisions :

No data available.

### 15.2. Chemical safety assessment

No data available.

## SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

### Wording of the phrases mentioned in section 3 :

H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

### Abbreviations :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.

Ec<sub>x</sub> : The effective concentration of the substance that causes x% maximum reaction.

NOEC : The concentration with no observed effect.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

DNEL : Derived No-Effect Level

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

**CHRYSO®Premia 550 - PF000892U**

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS07 : Exclamation mark

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.