



**SAFETY DATA SHEET**  
(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

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

**1.1. Product identifier**

Product name : CHRYSO@Air G100  
Product code : B0232U.

**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.**

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Skin sensitisation, Category 1 (Skin Sens. 1, H317).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

**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 220-239-6

METHYLISOTHIAZOLINON

Additional labeling :

Hazard statements :

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

Precautionary statements - Prevention :

P264

Wash the hands thoroughly after handling.

P272

Contaminated work clothing should not be allowed out of the workplace.

P280

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ ...

Precautionary statements - Response :

P333 + P313

If skin irritation or rash occurs: Get medical advice/attention.

Precautionary statements - Disposal :

P501

Dispose of contents/container to a collect point for special or hazardous waste.

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**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.

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

**3.2. Mixtures**

**Composition :**

Identification	(EC) 1272/2008	Note	%
EC: 931-329-6 REACH: 01-2119490100-53  AMIDES, C8-18 (EVEN NUMBERED) AND C18-UNSATD., N,N-BIS(HYDROXYETHYL)	GHS05, GHS09 Dgr Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411		0 $\leq$ x % < 2.5
CAS: 68439-57-6 EC: 931-534-0 REACH: 01-2119513401-57  SULPHONIC ACIDS, C14-16(EVEN NUMBERED)-ALKANE HYDROXY AND C14-16(EVEN NUMBERED)-ALKENE, SODIUM SALTS	GHS05 Dgr Skin Irrit. 2, H315 Eye Dam. 1, H318		0 $\leq$ x % < 2.5
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 $\leq$ x % < 0.1
CAS: 2682-20-4 EC: 220-239-6  METHYLISOTHIAZOLINON	GHS06, GHS05, GHS09 Dgr Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Eye Dam. 1, H318 Acute Tox. 2, H330 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 1 EUH:071		0 $\leq$ x % < 2.5

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

**Information on ingredients :**

[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 eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

**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.

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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.

**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.

Avoid skin and eye contact with this mixture.

**Prohibited equipment and procedures :**

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

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**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 / 2019-1487) :

CAS	VME-ppm :	VME-mg/m <sup>3</sup> :	VLE-ppm :	VLE-mg/m <sup>3</sup> :	Notes :	TMP No :
111-30-8	0.1	0.4	0.2	0.8	-	65.66

- UK / WEL (Workplace exposure limits, EH40/2005, 2011) :

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):**

SULPHONIC ACIDS, C14-16(EVEN NUMBERED)-ALKANE HYDROXY AND C14-16(EVEN NUMBERED)-ALKENE, SODIUM SALTS (CAS: 68439-57-6)

**Final use:**

Exposure method:  
 Potential health effects:  
 DNEL :

**Workers.**

Dermal contact.  
 Long term systemic effects.  
 2158.33 mg/kg body weight/day

Exposure method:  
 Potential health effects:  
 DNEL :

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

**Final use:**

Exposure method:  
 Potential health effects:  
 DNEL :

**Consumers.**

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

Exposure method:  
 Potential health effects:  
 DNEL :

Dermal contact.  
 Long term systemic effects.  
 1295 mg/kg body weight/day

**Predicted no effect concentration (PNEC):**

SULPHONIC ACIDS, C14-16(EVEN NUMBERED)-ALKANE HYDROXY AND C14-16(EVEN NUMBERED)-ALKENE, SODIUM SALTS (CAS: 68439-57-6)

Environmental compartment:  
 PNEC : Soil.  
 0.0061 mg/kg

Environmental compartment:  
 PNEC : Sea water.  
 0.0042 mg/l

Environmental compartment:  
 PNEC : Fresh water sediment.  
 2.025 mg/kg

Environmental compartment:  
 PNEC : Marine sediment.  
 0.2025 mg/kg

Environmental compartment:  
 PNEC : Waste water treatment plant.  
 4 mg/l

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## 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 with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

#### - Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

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)

Recommended properties :

- Impervious gloves in accordance with standard EN374

#### - 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 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 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

#### General information :

Physical state :	Fluid liquid.
Odour :	Characteristic
Colour :	Yellow

#### Important health, safety and environmental information

pH :	7.50 . Neutral.
Boiling point/boiling range :	Not relevant.
Flash point interval :	Not relevant.
Vapour pressure (50°C) :	Not relevant.
Density :	> 1

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Water solubility : Soluble.  
Melting point/melting range : Not relevant.  
Self-ignition temperature : Not relevant.  
Decomposition point/decomposition range : Not relevant.

**9.2. Other information**

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 toxicological effects**

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

May cause an allergic reaction by skin contact.

**11.1.1. Substances**

**Acute toxicity :**

METHYLISOTHIAZOLINON (CAS: 2682-20-4)

Oral route : 200 < LD50 <= 300 mg/kg  
Species : Rat  
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : 200 < LD50 <= 400 mg/kg  
Species : Rat  
OECD Guideline 402 (Acute Dermal Toxicity)

SULPHONIC ACIDS, C14-16(EVEN NUMBERED)-ALKANE HYDROXY AND C14-16(EVEN NUMBERED)-ALKENE, SODIUM SALTS (CAS: 68439-57-6)

Oral route : LD50 = 2079 mg/kg  
Species : Rat

Dermal route : LD50 = 13500 mg/kg  
Species : Rabbit

Inhalation route (n/a) : LC50 > 52 mg/l  
Species : Rat

**Skin corrosion/skin irritation :**

METHYLISOTHIAZOLINON (CAS: 2682-20-4)

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

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**Respiratory or skin sensitisation :**

SULPHONIC ACIDS, C14-16(EVEN NUMBERED)-ALKANE HYDROXY AND C14-16(EVEN NUMBERED)-ALKENE, SODIUM SALTS (CAS: 68439-57-6)

Local lymph node stimulation test : Non-Sensitiser.  
Species : Guinea pig  
REACH Method B.42 (Skin Sensitisation: Local Lymph Node Assay)

**Specific target organ systemic toxicity - repeated exposure :**

SULPHONIC ACIDS, C14-16(EVEN NUMBERED)-ALKANE HYDROXY AND C14-16(EVEN NUMBERED)-ALKENE, SODIUM SALTS (CAS: 68439-57-6)

Duration of exposure : 90 days

**11.1.2. Mixture**

No toxicological data available for the mixture.

**SECTION 12 : ECOLOGICAL INFORMATION**

**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

AMIDES, C8-18 (EVEN NUMBERED) AND C18-UNSATD., N,N-BIS(HYDROXYETHYL)

Fish toxicity : LC50 = 2.4 mg/l  
Duration of exposure : 96 h  
OECD Guideline 203 (Fish, Acute Toxicity Test)

NOEC = 0.32 mg/l  
Duration of exposure : 28 days  
OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)

Crustacean toxicity : EC50 = 3.2 mg/l  
Species : *Daphnia magna*  
Duration of exposure : 48 h  
OECD Guideline 202 (*Daphnia* sp. Acute Immobilisation Test)

Algae toxicity : ECr50 = 18.6 mg/l  
Duration of exposure : 72 h  
REACH Method C.3 (Algal Inhibition test)

Aquatic plant toxicity : ECr50 = 99 mg/l  
Duration of exposure : 72 h

SULPHONIC ACIDS, C14-16(EVEN NUMBERED)-ALKANE HYDROXY AND C14-16(EVEN NUMBERED)-ALKENE, SODIUM SALTS (CAS: 68439-57-6)

Fish toxicity : LC50 = 4.2 mg/l

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Duration of exposure : 96 h  
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity : EC50 = 4.53 mg/l  
Duration of exposure : 48 h

Algae toxicity : ECr50 = 5.2 mg/l  
Duration of exposure : 72 h

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability**

**12.2.1. Substances**

GLUTARAL (CAS: 111-30-8)

Biodegradability : Rapidly degradable.

SULPHONIC ACIDS, C14-16(EVEN NUMBERED)-ALKANE HYDROXY AND C14-16(EVEN NUMBERED)-ALKENE, SODIUM SALTS (CAS: 68439-57-6)

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

AMIDES, C8-18 (EVEN NUMBERED) AND C18-UNSATD., N,N-BIS(HYDROXYETHYL)

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. 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**

-

**14.2. UN proper shipping name**

-

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

-



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**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. 2020/217 (ATP 14)

**- 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 :**

H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
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.
EUH071	Corrosive to the respiratory tract.

**Abbreviations :**

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

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

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.