

CHRYSO®Xel 650 - Z0328H



|>

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®Xel 650
Product code : Z0328H.

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 : NORDIA S.A..
Address : 364 Kifisias Av.15233.Chalandri.Greece.
Telephone : +30 22950 22225. Fax : +30 22950 22120.
info@marmoline.gr

1.4. Emergency telephone number : 210 7793777.

Association/Organisation : POISONING ADVISORY CENTER.

>SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

Acute oral toxicity, Category 4 (Acute Tox. 4, H302).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

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

Germ cell mutagenicity, Category 2 (Muta. 2, H341).

Carcinogenicity, Category 1B (Carc. 1B, H350).

Contact with acids liberates very toxic gas (EUH032).

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 :



GHS05



GHS08



GHS07

Signal Word :

DANGER

Product identifiers :

EC 239-289-5 NITRIC ACID, AMMONIUM SALT AND CALCIUM SALT
EC 200-001-8 FORMALDEHYDE
EC 208-754-4 SODIUM THIOCYANATE
EC 200-659-6 METHANOL

Additional labeling :

For professional use only.

Hazard statements :

H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H341 Suspected of causing genetic defects .
H350 May cause cancer .
EUH032 Contact with acids liberates very toxic gas.

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Precautionary statements - Prevention :

- P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing vapours/spray.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ ...

Precautionary statements - Response :

- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

|> 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.

|>SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

|> Composition :

Identification	Classification (EC) 1272/2008	Note	%
CAS: 15245-12-2 EC: 239-289-5 REACH: 01-2119493947-16 NITRIC ACID, AMMONIUM SALT AND CALCIUM SALT	GHS07, GHS05 Dgr Acute Tox. 4, H302 Eye Dam. 1, H318	[XVII]	50 \leq x % < 100
CAS: 50-00-0 EC: 200-001-8 FORMALDEHYDE	GHS06, GHS05, GHS08 Dgr Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Acute Tox. 3, H331 STOT SE 3, H335 Muta. 2, H341 Carc. 1B, H350	B D [1] [2]	2.5 \leq x % < 10
CAS: 540-72-7 EC: 208-754-4 REACH: 01-2119543700-47 SODIUM THIOCYANATE	GHS07 Wng Acute Tox. 4, H302 Acute Tox. 4, H312 Eye Irrit. 2, H319 Acute Tox. 4, H332 Aquatic Chronic 3, H412 EUH:032		0 \leq x % < 2.5
CAS: 67-56-1 EC: 200-659-6 METHANOL	GHS06, GHS08, GHS02 Dgr Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	[1] [XVII]	0 \leq x % < 2.5

|> Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 15245-12-2 EC: 239-289-5 REACH: 01-2119493947-16 NITRIC ACID, AMMONIUM SALT AND CALCIUM SALT		oral: ATE = 500 mg/kg BW

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CAS: 50-00-0 EC: 200-001-8 FORMALDEHYDE	Skin Corr. 1B: H314 C \geq 25% Skin Irrit. 2: H315 5% \leq C < 25% Skin Sens. 1: H317 C \geq 0.2%	inhalation: ATE = 750 mg/l 4h (gas) dermal: ATE = 270 mg/kg BW oral: ATE = 640 mg/kg BW
CAS: 540-72-7 EC: 208-754-4 REACH: 01-2119543700-47 SODIUM THIOCYANATE		oral: ATE = 594 mg/kg BW
CAS: 67-56-1 EC: 200-659-6 METHANOL	STOT SE 1 (Cut) : H370 C \geq 10% STOT SE 2: H371 3% \leq C < 10% STOT SE 1 (Oral) : H370 C \geq 10% STOT SE 2: H371 3% \leq C < 10% STOT SE 1 (Inh) : H370 C \geq 10% STOT SE 2: H371 3% \leq C < 10%	

Information on ingredients :

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

[XVII] Restricted substance under Regulation (EC) No. 1907/2006 (REACH), Annex XVII.

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

[2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

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.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

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, administer activated medical charcoal and consult a doctor.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show 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 (CO₂)

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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

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

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.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

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 eye contact with this mixture at all times.

Avoid exposure - obtain special instructions before use.

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.

Storage

Keep away from food and drink, including those for animals.

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 :

- European Union (2022/431, 2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
50-00-0	0.37	0.3	0.74	0.6	

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67-56-1	260	200	-	-	Peau
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- South Africa / DME (Department of Minerals and Energy, 2006) :

CAS	VME :	VME :	Excess	Notes
50-00-0	1 ppm 1.2 mg/m ³	2 ppm 2.5 mg/m ³		
67-56-1	200 ppm 260 mg/m ³	250 ppm 310 mg/m ³		Sk

- South Africa / DOL CL (Department of Labour, Control limits, 1995) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
50-00-0	2 ppm 2.5 mg/m ³	2 ppm 2.5 mg/m ³			

- South Africa / DOL RL (Department of Labour, Recommended limits, 1995) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
67-56-1	200 ppm 260 mg/m ³	250 ppm 310 mg/m ³		Sk	

- Germany - AGW (BAuA - TRGS 900, 02/2022) :

CAS	VME :	VME :	Excess	Notes
50-00-0		0.3 ppm 0.37 mg/m ³		2(I)
67-56-1		200 ppm 270 mg/m ³		4(II)

- Denmark (2020) :

Stof	TWA	VSTEL	Loftvaerdi	Anm
50-00-0	0.3 ppm 0.4 mg/m ³			LK
67-56-1	200 ppm 260 mg/m ³			EH

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021) :

CAS	VME-ppm :	VME-mg/m ³ :	VLE-ppm :	VLE-mg/m ³ :	Notes :	TMP No :
50-00-0	0.3	0.37	0.6	0.74	CIB. M2. (16)	43. 43bis
67-56-1	200	260	1000	1300	(12)	84

- Finland (HTP-värden 2018) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
50-00-0	0.3 ppm 0.37 mg/m ³	1 ppm 1.2 mg/m ³			
67-56-1	200 ppm 270 mg/m ³	250 ppm 330 mg/m ³			

- Spain (Instituto Nacional de Seguridad e Higiene en el Trabajo (INSHT), 2019) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
50-00-0	0.3 ppm 0.37 mg/m ³	0.6 ppm 0.74 mg/m ³		CIB. Sen.s	
67-56-1	200 ppm 266 mg/m ³			via dermica.	

- Greece (90/1999) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
50-00-0		2 ppm 2.5 mg/m ³	2 ppm 2.5 mgm/3		

- Norway (Veiledning om administrative normer for forurensning i arbeidsatmosfære, 2019) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
50-00-0	0.5 ppm 0.6 mg/m ³			AK	
67-56-1	100 ppm 130 mg/m ³			HE	

- Netherlands / MAC-waarde (10 december 2014) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
50-00-0	0.15 mg/m ³	0.5 mg/m ³			
67-56-1	133 mg/m ³			Huid	

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

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CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
50-00-0	0.37 mg/m ³	0.74 mg/m ³			
67-56-1	100 mg/m ³	300 mg/m ³			

- Portugal (1.a N° 26 - 06/01/2012) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
67-56-1	200 ppm 260 mg/m ³			Cutânea	

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

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
50-00-0	0.5 mg/m ³	1 mg/m ³		I. S	
67-56-1	250 mg/m ³	1000 mg/m ³		D	

- Slovakia (Regulation 300/2007, 471/2011 23/11/2011) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
50-00-0	0.3 ppm 0.37 mg/m ³	0.6 ppm 0.74 mg/m ³		S	
67-56-1	200 ppm 260 mg/m ³			K	

- Switzerland (Suva 2021) :

CAS	VME	VLE	Valeur plafond	Notations
50-00-0	0.3 ppm 0.37 mg/m ³	0.6 ppm 0.74 mg/m ³		
67-56-1	200 ppm 260 mg/m ³	400 ppm 520 mg/m ³		

- Sweden (AFS 2018 :1) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
50-00-0	0.3 ppm 0.37 mg/m ³	0.6 ppm 0.74 mg/m ³		C.H.M.S	
67-56-1	200 ppm 250 mg/m ³	250 ppm 350 mg/m ³		H.V	

- Romania (Hotarâre 1218/2006) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
50-00-0	1 ppm 1.2 mg/m ³	2 ppm 3 mg/m ³			
67-56-1	200 ppm 260 mg/m ³	5 ppm			

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

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
50-00-0	2 ppm 2.5 mg/m ³	2 ppm 2.5 mg/m ³		Carc	
67-56-1	200 ppm 266 mg/m ³	250 ppm 333 mg/m ³		Sk	

- Turkey (TC 28733, 2013) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
67-56-1	260 ppm 200 mg/m ³				

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

FORMALDEHYDE ...% (CAS: 50-00-0)

> Final use:	Workers.
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	240 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term local effects.
DNEL :	37 µg of substance/cm ²
Exposure method:	Inhalation.
Potential health effects:	Short term local effects.
DNEL :	1 mg of substance/m ³

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Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 9 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 0.5 mg of substance/m3

|> **Final use:** **Man exposed via the environment.**

Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 4.1 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term local effects.
DNEL : 12 µg of substance/cm2

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 3.2 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 0.1 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 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 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)

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|> - 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.

|> - Respiratory protection

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A1 (Brown)

|>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

|> Freezing point

Freezing point / Freezing range : Not stated.

|> 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 : Not stated.

|> 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

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|> 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

This mixture reacts with acids, releasing very toxic gases in dangerous quantities.

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

Keep away from :

- acids

Releases a highly toxic gas when in contact with acids.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO₂)

|>SECTION 11 : TOXICOLOGICAL INFORMATION

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

Harmful if swallowed.

May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days.

Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.

May cause an allergic reaction by skin contact.

Presumed human carcinogen.

Cause for concern owing to the possibility that it may induce heritable mutations in the germ cells of humans.

11.1.1. Substances

|> Acute toxicity :

SODIUM THIOCYANATE (CAS: 540-72-7)

Oral route :

LD50 = 594 mg/kg bodyweight/day

Species : Mouse

FORMALDEHYDE ...% (CAS: 50-00-0)

Oral route :

LD50 = 640 mg/kg bodyweight/day

Species : Rat

OECD Guideline 401 (Acute Oral Toxicity)

Dermal route :

LD50 = 270 mg/kg bodyweight/day

Species : Rabbit

Inhalation route (Gas) :

LC50 = 750 ppm

Duration of exposure : 4 h

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NITRIC ACID, AMMONIUM SALT AND CALCIUM SALT (CAS: 15245-12-2)

Oral route : LD50 = 500 mg/kg bodyweight/day

|> Skin corrosion/skin irritation :

FORMALDEHYDE ...% (CAS: 50-00-0)

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

Serious damage to eyes/eye irritation :

NITRIC ACID, AMMONIUM SALT AND CALCIUM SALT (CAS: 15245-12-2)

Corneal haze : Average score = 3

Iritis : Average score = 1.5

Conjunctival redness : Average score = 3

Conjunctival oedema : Average score = 3

|> Respiratory or skin sensitisation :

FORMALDEHYDE ...% (CAS: 50-00-0)

OECD Guideline 406 (Skin Sensitisation)

Species : Guinea pig
OECD Guideline 406 (Skin Sensitisation)

11.1.2. Mixture

No toxicological data available for the mixture.

11.2. Information on other hazards

|> Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 111-42-2 : IARC Group 2B : The agent is possibly carcinogenic to humans.

CAS 50-00-0 : IARC Group 1 : The agent is carcinogenic to humans.

|>SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

|> 12.1.1. Substances

FORMALDEHYDE ...% (CAS: 50-00-0)

Algae toxicity : ECr50 = 0.3 mg/l
Species : Desmodesmus subspicatus
Duration of exposure : 24 h

SODIUM THIOCYANATE (CAS: 540-72-7)

Fish toxicity : LC50 = 69 mg/l
Species : Oncorhynchus mykiss
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

NOEC = 1.53 mg/l

Crustacean toxicity : Species : Daphnia magna

NOEC = 1.25 mg/l
Species : Daphnia magna
Duration of exposure : 21 days
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity : ECr50 > 249.5 mg/l

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	Duration of exposure : 96 h
Aquatic plant toxicity :	ECr50 = 3663 mg/l Species : Lemna minor Duration of exposure : 96 h
METHANOL (CAS: 67-56-1) Fish toxicity :	LC50 = 15400 mg/l Species : Lepomis macrochirus Duration of exposure : 96 h
Crustacean toxicity :	EC50 > 1000 mg/l Species : Daphnia magna Duration of exposure : 48 h
Algae toxicity :	ECr50 = 220000 mg/l Duration of exposure : 96 h
NITRIC ACID, AMMONIUM SALT AND CALCIUM SALT (CAS: 15245-12-2) Fish toxicity :	LC50 = 447 mg/l Duration of exposure : 96 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

|> 12.2.1. Substances

METHANOL (CAS: 67-56-1) Biodegradability :	no degradability data is available, the substance is considered as not degrading quickly.
SODIUM THIOCYANATE (CAS: 540-72-7) Biodegradability :	no degradability data is available, the substance is considered as not degrading quickly.
FORMALDEHYDE ...% (CAS: 50-00-0) Biodegradability :	no degradability data is available, the substance is considered as not degrading quickly.
NITRIC ACID, AMMONIUM SALT AND CALCIUM SALT (CAS: 15245-12-2) Biodegradability :	no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

12.3.1. Substances

SODIUM THIOCYANATE (CAS: 540-72-7) Octanol/water partition coefficient :	log K _{ow} >= 4.
Bioaccumulation :	BCF >= 500.

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.

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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, 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

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|> 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

-

|> 14.7. Maritime transport in bulk according to IMO instruments

-

>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.

|> Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture contains at least one restricted substance under Annex XVII of Regulation (EC) No. 1907/2006 (REACH): <https://echa.europa.eu/substances-restricted-under-reach>. Please refer to Section 3 to identify the substance involved.

For professional users only.

|> Explosives precursors :

The mixture contains at least one substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors:

- Calcium ammonium nitrate (CAS 15245-12-2)

The acquisition, introduction, possession or use of this restricted explosive precursor by members of the general public is subject to the reporting obligations.

Particular provisions :

No data available.

15.2. Chemical safety assessment

CHRYSO®Xel 650 - Z0328H

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 :

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects .
H350	May cause cancer .
H370	Causes damage to organs .
H412	Harmful to aquatic life with long lasting effects.
EUH032	Contact with acids liberates very toxic gas.

|> Abbreviations and acronyms :

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.
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
CMR: Carcinogenic, mutagenic or reprotoxic.
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
RID : Regulations concerning the International carriage of Dangerous goods by rail.
WGK : Wassergefährdungsklasse (Water Hazard Class).
GHS05 : Corrosion
GHS07 : Exclamation mark
GHS08 : Health hazard
PBT: Persistent, bioaccumulable and toxic.
vPvB : Very persistent, very bioaccumulable.
SVHC : Substances of very high concern.
|> Modification compared to the previous version