### CHRYSO®Plast V70 - B0182



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# SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

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

### 1.1. Product identifier

Product name: CHRYSO®Plast V70

Product code: B0182.

# 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 SAS.

Address: 7 rue de l'Europe.45300.SERMAISES DU LOIRET.France.

Telephone: 02 38 34 58 00. Fax: 02 38 39 01 72.

fds.chryso@chryso.com www.chryso.com

## 1.4. Emergency telephone number: +33 (0)1 45 42 59 59.

Association/Organisation: INRS / ORFILA http://www.centres-antipoison.net.

### SECTION 2 : HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

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

Skin irritation, Category 2 (Skin Irrit. 2, H315).

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

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.

# In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Skin sensitisation (Xi, R 43).

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

GHS05

Signal Word:

DANGER

Product identifiers:

EC 236-062-2 N-ALKYL OLÉYL N.N-BISHYDROXYÉTHYLAMINE

EC 204-798-3 TRIISOBUTYLPHOSPHATE

Hazard statements:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

Precautionary statements - Prevention:

P261 Avoid breathing vapours/spray.

P264 Wash the hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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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 or doctor/physician.

P321 Specific treatment (see ... on this label).

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

(EC) 1272/2008

P363 Wash contaminated clothing before reuse.

### 2.3. Other hazards

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

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

67/548/EEC

Note

%

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2. Mixtures

**Composition:** 

Identification

Identification	(EC) 1272/2008	67/548/EEC	Note	90
CAS: 13127-82-7	GHS07, GHS05, GHS09	C,N		$2.5 \le x \% < 10$
EC: 236-062-2	Dgr	C;R34		
	Acute Tox. 4, H302	Xn;R22		
N-ALKYL OLÉYL	Skin Corr. 1B, H314	N;R50		
N,N-BISHYDROXYÉTHYLAMINE	Aquatic Acute 1, H400	,		
	M Acute = 1			
CAS: 126-71-6	GHS07	Xi		2.5 <= x % < 10
EC: 204-798-3	Wng	Xi;R43		
REACH: 01-2119957118-32	Skin Sens. 1, H317			
TRIISOBUTYLPHOSPHATE				
CAS: 112-90-3	GHS07, GHS05, GHS09,	C,N		0 <= x % < 0.5
EC: 204-015-5	GHS08	C;R34		
	Dgr	Xn;R48/22-R22		
(Z)-OCTADEC-9-ENYLAMINE	Acute Tox. 4, H302	Xi;R37		
	Skin Corr. 1B, H314	N;R50		
	STOT SE 3, H335	,		
	STOT RE 2, H373			
	Aquatic Acute 1, H400			
	M Acute = 1			
CAS: 50-00-0	GHS06, GHS05, GHS08	T	B D	0 <= x % < 0.05
EC: 200-001-8	Dgr	Carc. Cat. 3;R40	[1]	
	Acute Tox. 3, H301	T;R23/24/25	[2]	
FORMALDEHYDE	Acute Tox. 3, H311	C;R34		
	Skin Sens. 1, H317	Xi;R43		
	Eye Dam. 1, H318			
	Acute Tox. 2, H330			
	STOT SE 3, H335			
	Carc. 2, H351			
INDEX: 613-088-00-6	GHS05, GHS07, GHS09	Xn,N		0 <= x % < 0.05
CAS: 2634-33-5	Dgr	Xn;R22		
EC: 220-120-9	Acute Tox. 4, H302	Xi;R38-R41-R43		
	Skin Irrit. 2, H315	N;R50		
1,2-BENZISOTHIAZOL-3(2H)-ONE	Eye Dam. 1, H318	*		
	Skin Sens. 1, H317			
	Aquatic Acute 1, H400			
	M Acute = 1			
	1	1		

# Information on ingredients:

- [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

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# In the event of splashes or contact with eyes:

Wash thoroughly with soft, 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 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 (CO2)
- sulphur dioxide (SO2)

## 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.

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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.

## 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:

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

CAS TWA: STEL: Ceiling: Definition: Criteria: 50-00-0 - 0.3 ppm - -

- France (INRS - ED984:2008):

CAS VME-ppm: VME-mg/m3: VLE-ppm: VLE-mg/m3: Notes: TMP No:

50-00-0 0.5 - 1 - C3 43

- UK / WEL (Workplace exposure limits, EH40/2005, 2007):

CAS TWA: STEL: Ceiling: Definition: Criteria:

50-00-0 2 ppm - - -

# 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/cm2

Exposure method: Inhalation.

Potential health effects: Short term local effects.

DNEL: 1 mg of substance/m3

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

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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 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.

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# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

**General information:** 

Physical state: Fluid liquid. Odour Characteristic Colorless to straw Colour

Important health, safety and environmental information

6.00 . pH:

> Neutral. Not relevant. Not relevant.

Boiling point/boiling range: Flash point interval: Vapour pressure (50°C): Not relevant.

Density: > 1 Soluble. Water solubility: 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 (CO2)
- sulphur dioxide (SO2)

## **SECTION 11 : TOXICOLOGICAL INFORMATION**

# 11.1. Information on toxicological effects

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

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.

### 11.1.1. Substances

## Acute toxicity:

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

LD50 = 640 mg/kgOral route:

Species: Rat

OECD Guideline 401 (Acute Oral Toxicity)

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Dermal route : LD50 = 270 mg/kg

Species: Rabbit

Inhalation route: LC50 = 5 mg/l

Species: Rat

OECD Guideline 403 (Acute Inhalation Toxicity)

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TRIISOBUTYLPHOSPHATE (CAS: 126-71-6)

Oral route : LD50 > 5000 mg/kg

Species: Rat

Dermal route : LD50 > 5000 mg/kg

Species: Rabbit

Inhalation route : LC50 > 5140 mg/l

Species: Rat

OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/skin irritation:

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

Corrosivity: No observed effect.

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Respiratory or skin sensitisation:

FORMALDEHYDE ...% (CAS: 50-00-0) May cause an allergic skin reaction.

Local lymph node stimulation test: Non-Sensitiser.

OECD Guideline 406 (Skin Sensitisation)

Buehler Test: Sensitiser.

Species: Guinea pig

OECD Guideline 406 (Skin Sensitisation)

**Carcinogenicity:** 

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

Carcinogenicity Test: Positive.

Suspected human carcinogen.

Species: Rat

11.1.2. Mixture

No toxicological data available for the mixture.

## **SECTION 12: ECOLOGICAL INFORMATION**

### 12.1. Toxicity

### 12.1.1. Substances

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

Fish toxicity: LC50 = 100 mg/l

Species : Lepomis macrochirus Duration of exposure : 96 h

Crustacean toxicity: EC50 = 42 mg/l

Species : Daphnia magna Duration of exposure : 24 h

Algae toxicity: ECr50 = 0.3 mg/l

Species: Desmodesmus subspicatus

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Duration of exposure: 24 h

**12.1.2.** Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

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

Biodegradability:

no degradability data is available, the substance is considered as not degrading

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quickly.

TRIISOBUTYLPHOSPHATE (CAS: 126-71-6)

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.

## **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:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- Container information:

No data available.

## - Particular provisions :

No data available.

## 15.2. Chemical safety assessment

No data available.

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### **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.

### In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols:



Irritant

Contains:

EC 204-798-3 TRIISOBUTYLPHOSPHATE

Risk phrase:

R 43 May cause sensitisation by skin contact.

Safety phrase:

S 24 Avoid contact with skin. S 37 Wear suitable gloves.

S 60 This material and its container must be disposed of as hazardous waste.

## Title for H, EUH and R indications mentioned in section 3:

H301 Toxic if swallowed.

H301 + H311 Toxic if swallowed or in contact with skin.

H302 Harmful 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.

H335 May cause respiratory irritation. H351 Suspected of causing cancer .

H373 May cause damage to organs through prolonged or repeated exposure .

H400 Very toxic to aquatic life. R 22 Harmful if swallowed.

R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R 34 Causes burns.

R 37 Irritating to respiratory system.

R 38 Irritating to skin.

R 40.C3 Limited evidence of a carcinogenic effect.

R 41 Risk of serious damage to eyes.

R 43 May cause sensitisation by skin contact.

R 48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R 50 Very toxic to aquatic organisms.

### Abbreviations :

DNEL: Derived No-Effect Level

CMR: Carcinogenic, mutagenic or reprotoxic.

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: Wassergefahrdungsklasse (Water Hazard Class).

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GHS05: Corrosion

GHS07: Exclamation mark