

**CHRYSO® Fluid Optima 100 – B0157**  
Concrete and mortar admixture**SAFETY DATA SHEET**  
(REACH regulation (EC) n° 1907/2006 - n° 453/2010)**1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY**

Identification of the product: Liquid  
 Company identification: See company  
 Trade name: **CHRYSO® Fluid Optima 100**  
 Product code: B0157  
 Type of product: Concrete and mortar admixture  
 Use: Industrial

Company  
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**2. INFORMATION ON INGREDIENTS****Substances**

No substances fulfil the criteria set forth in annexe II section A of the REACH regulation (EC) n° 1907/2006.

**Mixtures composition**

Identification	(EC) 1272/2008	67/548/EEC	Note	%
CAS: 126-71-6 EC: 204-798-3  TRIISOBUTYLPHOSPHATE	GHS07 Wng Skin Sens. 1, H317	Xi Xi;R43 R52/53		0 ≤ x % < 2.5

**3. IDENTIFICATION OF HAZARDS****Classification of the substance or mixture****In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.**

May produce an allergic reaction.

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 a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

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

**Label elements****In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.****Contains**

Contains EC 204-798-3 TRIISOBUTYLPHOSPHATE. May produce an allergic reaction.

**CHRYSO® Fluid Optima 100 – B0157**  
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The mixture does not contain any substances classified as “Substances of Very High Concern” (SVHC) 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.

**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.

**Description of first aid measures****In the event of swallowing:**

Seek medical attention, showing the label.

**Most important symptoms and effects, both acute and delayed**

No data available.

**Indication of any immediate medical attention and special treatment needed**

No data available.

**5. FIRE FIGHTING MEASURES**

Non-flammable.

**Extinguishing media****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>)
- sulphur dioxide (SO<sub>2</sub>)

**Advice for firefighters**

No data available.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**For fire-fighters**

Fire-fighters will be equipped with suitable personal protective equipment (See section 8).

**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.

**Methods and material for containment and cleaning up**

Clean preferably with a detergent, do not use solvents.

**Reference to other sections**

No data available.

**CHRYSO® Fluid Optima 100 – B0157**  
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Requirements relating to storage premises apply to all facilities where the mixture is handled.

**Precautions for safe handling**

Always wash hands after handling.

**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.

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

No data available.

**Packaging**

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

**Specific end use(s)**

No data available.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

No data available.

**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**

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

Type of gloves recommended:

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

**CHRYSO® Fluid Optima 100 – B0157**  
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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.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties****General information**

Physical state:	Viscous liquid
Odour:	Characteristic
Colour:	Off-white
pH value:	4.00/slightly acidic
Boiling point/boiling range:	Not relevant
Flash point interval:	Not relevant
Vapour pressure (50 °C):	Below 110 kPa (1.10 bar)
Density:	> 1
Water solubility:	Soluble
Melting point/melting range:	Not relevant
Self-ignition temperature:	Not relevant
Decomposition point/decomposition range:	Not relevant

**Other information**

No data available.

**10. STABILITY AND REACTIVITY****Reactivity**

No data available.

**Chemical stability**

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

**Possibility of hazardous reactions**

No data available.

**Conditions to avoid**

Avoid:

- frost

**Incompatible materials****Hazardous decomposition products**

The thermal decomposition may release/form:

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)
- sulphur dioxide (SO<sub>2</sub>)

**11. TOXICOLOGICAL INFORMATION****Information on toxicological effects**

No data available.

**CHRYSO® Fluid Optima 100 – B0157**  
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TRIISOBUTYLPHOSPHATE (CAS: 126-71-6)

Oral route: DL50 &gt; 5 000 mg/kg

Species: Rat

Dermal route: DL50 &gt; 5 000 mg/kg

Species: Rabbit

Inhalation route: LC50 &gt; 5 140 mg/L

Species: Rat

OECD Guideline 403 (Acute Inhalation Toxicity)

**Mixture****Respiratory or skin sensitisation:**

Contains at least one sensitising substance. May cause an allergic reaction.

**12. ECOLOGICAL INFORMATION****Toxicity****Mixtures**

No aquatic toxicity data available for the mixture.

**Persistence and degradability****Substances**

TRIISOBUTYLPHOSPHATE (CAS: 126-71-6)

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

**Bioaccumulative potential**

No data available.

**Mobility in soil**

No data available.

**Results of PBT and vPvB assessment**

No data available.

**Other adverse effects**

No data available.

**13. DISPOSAL CONSIDERATIONS**

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

**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.

**CHRYSO® Fluid Optima 100 – B0157**  
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Exempt from transport classification and labelling.

**15. REGULATORY INFORMATION****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
- Regulation EC 1272/2008 modified by regulation EC 286/2011

**Container information**

No data available.

**Particular provisions**

No data available.

**Chemical safety assessment**

No data available.

**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.

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

H317: May cause an allergic skin reaction.

R 43: May cause sensitisation by skin contact.

R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Abbreviations:**

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).

**Disclaimer of liability:** The information in this MSDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

**CHRYSO® Fluid Optima 100** must not be used for any purposes other than those specified under section 1 (identification of the substance/preparation and the company) without first obtaining written 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 given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

The contents and format of this material safety data sheet are in accordance with EEC Commission Directive 2001/58/EC.