



# Material safety data sheet

## CHRYSO®AMA 42 EL

Grinding aid –  
 early and late age strength activator

### 1. Identification of substance/preparation and company

Substance/preparation

Trade name: CHRYSO®AMA 42 EL

Normal use: Grinding aid

Company

CHRYSO Southern Africa (Pty) LTD

Tel: +27(0)11 395 9700 | Fax: +27(0)11 397 6644

Website: www.chryso.com | Sharecall facility: 0861 CHRYSO



### 2. Composition/information on ingredients

Substances present at a concentration below the minimum danger threshold:

Substance name	Concentration	CAS/EINECS/EC Index	Symbol	R-phrase
1,1',1''-nitritotripropan-2-ol	>20%	122-20-3/204-528-4/603-097-00-3	Xi	36-52/53
2,2'-iminodiethanol	<1%	111-42-2/203-868-0/603-071-00-1	Xn	22-38-41-48/22
Tiisobutylphosphate	<5%	126-71-6/204-798-3/-	Xi	43

### 3. Identification of hazards

Inhalation

CHRYSO®AMA 42 EL is not expected to present a significant hazard under the anticipated conditions for normal use.

Ingestion

The product must not come into contact with food or be consumed because swallowing CHRYSO®AMA 42 EL represents a health hazard.



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### 3. Identification of hazards (continued)

#### Eyes

CHRYSO®AMA 42 EL will act as an irritant when it comes into contact with one's eyes.

#### Skin

Repeated or prolonged contact with the skin will cause irritation.

### 4. First aid

As a general rule, always call a doctor in case of doubt or if symptoms persist. Never induce swallowing in an unconscious person.

#### Inhalation

In the event of exposure by inhalation, move the patient into fresh air and keep him/her warm and still. If coughing persists, call a doctor. If breathing is irregular or has stopped, give mouth-to-mouth resuscitation and call a doctor. Do not give the patient anything orally.

#### Ingestion

With ingestion, wash out mouth thoroughly with fresh water, but do not induce vomiting. Seek medical advice and show this material safety data sheet.

#### Eyes

If CHRYSO®AMA 42 EL is splashed in or has any contact with a person's eyes – hold the eyelids open and wash thoroughly with water. Regardless of the initial state, refer the patient to an ophthalmologist and supply this material safety data sheet.

#### Skin

Should CHRYSO®AMA 42 EL have any contact with the skin, wash the affected area with soap and water. Remove contaminated clothing. Obtain medical attention if irritation persists.



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### 5. Fire fighting measures

This is not relevant as **CHRYSO®AMA 42 EL** is not flammable. However, toxic gas may be emitted on thermal decomposition and fire fighting personnel should be equipped with autonomous insulating breathing apparatus. Foam and carbon dioxide should be used as extinguishing media. Water is an unsuitable extinguishing media.

### 6. Measures to be taken in the event of accidental spillage

#### Safety precautions

Consult safety measures under section 7 and section 8 of this data sheet (handling and storage, exposure control/personal safety). Avoid inhaling the fumes. If a large quantity of **CHRYSO®AMA 42 EL** is spilled, evacuate personnel within the surrounding area and only allow trained operators that are equipped with safety apparatus to deal with the spillage.

#### Environmental safety precautions

Prevent any material from entering drains or waterways. If **CHRYSO®AMA 42 EL** contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures.

#### Cleaning methods

Contain and control the leaks or spills with non-combustible absorbent materials such as absorbent brooms, sand, earth, vermiculite, and diatom earth in drums for waste disposal. Clean up spills as soon as possible and use suitable disposable containers. Clean preferably with a detergent, do not use solvents.





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### 7. Handling and storage

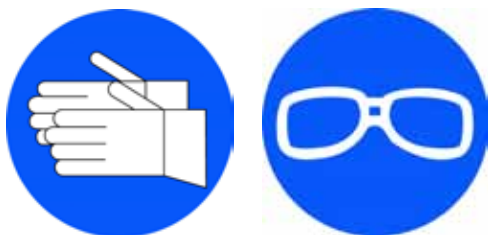
The regulations that apply to the storage premises of **CHRYSO®AMA 42 EL** must apply to workshops where the product is handled.

**CHRYSO®AMA 42 EL** must be handled in accordance with good industrial hygiene and safety procedures. Observe precautions stated on the label as well as industrial safety regulations.

Keep the product away from a person's or an animal's food or drink. All smoking, eating and drinking must be prohibited in premises where the preparation is used. Wash hands and other exposed areas with mild soap before one eats, drinks or smokes and before leaving work. Avoid any contact with the eyes.

**CHRYSO®AMA 42 EL** must be stored in a tightly closed container in a dry, well ventilated area. Prevent access of any unauthorised personnel onto the premises.

### 8. Exposure control/personal safety



Exposure limits per INRS ND 1945-153-93 / (1996) and ND 2022-163-96: substances within this category:

France	VME-ppm	VME -mg/m <sup>3</sup>	VLE-ppm	VLE-mg/m <sup>3</sup>	Notes
603-071-00-1	3	15	-	-	TMP 49
Germany	Class	MAK-ppm	MAK-mg/m <sup>3</sup>		
603-071-00-1	-	-	-	STEL-mg/m <sup>3</sup>	
ACGIH(TLV)	TWA-ppm	TWA-mg/m <sup>3</sup>	STEL-ppm		
603-071-00-1	0,46	2	-		

Disclaimer: The information contained in this document is given to the best of CHRYSO's knowledge and is the result of extensive testing. However, this document will not under any circumstances be considered as a warranty involving CHRYSO's liability in case of misuse. Tests should be carried out before any use of the product to ensure that the methods and conditions of use of the product are satisfactory. CHRYSO specialists are at the disposal of the users in order to help them with any problems encountered.





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### Respiratory protection

Provide good ventilation in area where product is in use.

### Skin

Personnel must wear regularly laundered overalls and physical protective equipment including gloves. The gloves should be resistant to chemical penetration. Protective creams may be used for exposed skin, but they should not be applied after contact with the product.

### Eyes

Avoid contact with eyes and use safety goggles. Supply eye washes in workshops where **CHRYSO®AMA 42 EL** is constantly handled. For further information, see section 11 of this safety data sheet (toxicological information).

## 9. Physical and chemical properties

- |  |   |
|--|---|
| • Physical state (20°C):                           | liquid  |
| • Colour:  | brown   |
| • Active ingredients:                              | aqueous solution containing organic compounds |
| • Chloride content:                                | 7,8 (±1) %                                    |
| • Alkali content:                                  | ≤ 10% Na <sub>2</sub> O                       |
| • Specific gravity (20°C):                         | > 1,135 (±0,010)                              |
| • Acid/ base character of preparation:             | slightly basic                                |
| • pH (20°C):                                       | 7,5 to 9,5                                    |
| • Freezing point:                                  | > -10°C                                       |
| • Flash point:                                     | > 100°C (not flammable)                       |
| • Solubility of preparation in water:              | dilutable                                     |
| • Vapour tension at 50°C of volatile constituents: | below 110 kPa (1,10 bar)                      |

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### 10. Stability and reactivity

This material is stable at the handling and storage conditions recommended in section 7 (handling and storage) of this data sheet.

On exposure to high temperatures, **CHRYSO®AMA 42 EL** may decompose, releasing toxic gases like carbon monoxide and carbon dioxide.

### 11. Toxicological information

No data is available regarding the preparation itself.

### 12. Ecological information

No ecological data on this product itself is available.

### 13. Disposal considerations

Do not pour into drains or waterways. Dispose this product and its container at a hazardous or special waste collection point in a safe manner and in accordance with national/municipal regulations; avoid its release into the environment.

### 14. Transport information

Exempt from transport classification and labelling, transportation of **CHRYSO®AMA 42 EL** must be in compliance with the provisions of ADR for road, RID for rail, IDMG for sea and the ICAO/IATA for air transport.

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### 15. Regulatory information

This preparation is classified in compliance with the directive known as *All preparations 88/379/EEC* and its adaptations. In addition, directive *91/63/EC* with the 22<sup>o</sup> adaptation of directive *67/548/EC Hazardous Substances* has been taken into account.

**Preparation classification:** corrosive

**R phrases:** R36/38: irritating to eyes and skin

### 16. Other information

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

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**Disclaimer:** The user's working conditions are not known by CHRYSO, the information supplied on this safety data sheet is based on CHRYSO's current level of knowledge and on national and community regulations. **CHRYSO®AMA 42 EL** 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.