CHRYSO

CHEMICAL SOLUTIONS FOR THE CONSTRUCTION MATERIALS INDUSTRY

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Material safety data sheet

CHRYSO®AMA 53 L

A high performance 28 day strength grinding aid activator for closed circuit systems

1. Identification of substance/preparation and company

Substance/preparation

Trade name: CHRYSO®AMA 53 L

Normal use: Cement additive

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

This product is classifies as an irritant and contains hazardous components:

Substance name	Concentration	CAS/EINECS/EC Index	Symbol	R-phrase
2,2-iminodiéthanol	< 10%	111-42-2/203-868-0/603-071-00-1	Xn	22-38-41-48/22
1,1',1"-nitrilotripropane-2-ol	< 25%	122-20-3/204-528-4/603-097-00-3	Xi	36-52/53

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3. Identification of hazards

Inhalation

CHRYSO®AMA 53 L is not expected to present a significant hazard under the anticipated conditions for normal use. It may cause irritation to the respiratory system.

Ingestion

The product must not come into contact with food or be consumed because swallowing **CHRYSO®AMA 53 L** represents a health hazard.

Eyes

CHRYSO®AMA 53 L will act as an irritant when it comes into contact with one's eyes, causing redness, pain and blurred vision.

Skin

Repeated or prolonged contact with the skin will cause irritation.

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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 or breathing difficulty persists, call a doctor.

Ingestion

With ingestion, wash out mouth thoroughly with fresh water, but do not induce vomiting.
Seek medical advice.

Eyes

If **CHRYSO®AMA 53 L** is splashed in or has any contact with a person's eyes hold the eyelids open and wash thoroughly with water. If pain, blinking, tears or redness persists, obtain emergency medical attention urgently.

Skin

Should **CHRYSO®AMA 53 L** have any contact with the skin, wash the affected area with soap and water. Remove the contaminated clothing. Obtain medical attention if irritation persists

5. Fire fighting measures

This is not relevant as **CHRYSO®AMA 53 L** 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.

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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). Equip the cleanup crew with proper protection..

Environmental safety precautions

Prevent any material from entering drains or waterways. Use drums to dispose of waste recovered in accordance with applicable regulations. If **CHRYSO®AMA 53 L** contaminates waterways, rivers or drains, alert the relevant authorities is 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.

7. Handling and storage

The regulations that apply to the storage premises of **CHRYSO®AMA 53 L** must apply to workshops where the product is handled.

CHRYSO®AMA 53 L must be handled in accordance with good industrial hygiene and safety procedures. Ensure that the product is always promptly removed from eyes, skin and clothing.

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.

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9. Physical and chemical properties

- Physical state (20°C): liquid
- Colour: brown
- Specific gravity (20°C): > 1.05 (±0.01)
- pH (20°C): 9.5 to 11.5
- Solubility of preparation in water: dilutable

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.

11. Toxicological information

Toxicity information: Irritating to eyes

Rat oral LD50

2,2-iminodiéthanol:	770-3540 mg/kg
1,1',1"-nitrilotripropane-2-ol:	4000 mg/kg

Rabbit Dermal LD50

2,2-iminodiéthanol:	1300 mg/kg
1,1',1"-nitrilotripropane-2-ol:	10000 mg/kg

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12. Ecological information

LC50-96 Hour – fish

2,2-iminodiéthanol:	>250-301 mg/*l*
1,1′,1″-nitrilotripropane-2-ol:	100 mg/*l*

48 H- CE50 – daphnia magna

2,2-iminodiéthanol:	44-68 mg/*l*
1,1′,1″-nitrilotripropane-2-ol:	> 500 mg/*l*

IC50 72h – algae

1,1′,1″-nitrilotripropane-2-ol:	> 100 mg/*l*

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

IMDG – marine pollution: No

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15. Regulatory information

Preparation classification: irritant

R phrases:

R36: irritating to eyes

S phrases:

S26: in case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S35: this material and its container must be disposed of in a safe way

S37: wear suitable gloves

S51: use only in well ventilated areas

Warning – table of occupational diseases

No 49: Conditions caused by aliphatic amines and alicyclic

16. Other information

The contents and format of this material safety data sheet are in accordance with EEC Commission Directive 1907/2006/CE

Print date: 07/03/2013

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 53 L** 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.

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