

MATERIAL SAFETY DATA SHEET	Page : 1
	Revision nr : 2
ref ISO : 123456	Date : 15/3/2004
CHRYSO®Decolav N01	Supersedes : 29/1/2004
	D0407 www.lisam.com



Dangerous for the environment



Highly flammable



Irritant

Producer

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F-45300 SERMAISES DU LOIRET FRANCE
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Antipoison Center - tel : ORFILA : 01.45.42.59.59

1. Identification of the product and the company

Identification of the product : Liquid.
Company identification : See producer.
Trade name : CHRYSO®Decolav N01.
Type of product : Concrete and mortar admixture.
Use : Industrial.

2. Information on ingredients

This product is considered to be hazardous and contains hazardous components.

Substance name	Value(s)	CAS nr / EINECS nr / EC index	Symbol(s)	R-Phrase(s)
<u>Citric acid monohydrate</u>	: < 15 %	005949-29-1 / 201-069-1 / -----	Xi	36/38
<u>Hydrocarbon-solvents (Aliphatic)</u>	: > 25 %	064742-49-0 / 265-151-9 / -----	F Xn N	11-38-51/53-65-67

3. Hazards identification

Risk Phrases : Irritating to eyes and skin.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Flammable

Dangerous product : In use, may form flammable vapour-air mixture.

Adverse human health effects : May cause lung damage if swallowed.

Symptoms relating to use

- Inhalation : Overexposure to vapours may result in cough. Headache.
- Skin contact : Repeated or prolonged skin contact may cause irritation.
- Eye contact : Eye irritant upon direct contact.
- Ingestion : Must not come into contact with food or be consumed. Swallowing a small quantity of this material will result in serious health hazard. Abdominal pain, nausea.

4. First aid measures

First aid

- Inhalation : Assure fresh air breathing. If you feel unwell, seek medical advice.
- Skin contact : Wash skin thoroughly with mild soap and water. Seek medical attention if irritation develops.
- Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or

MATERIAL SAFETY DATA SHEET	Page : 2
	Revision nr : 2
ref ISO : 123456	Date : 15/3/2004
CHRYSO®Decolav N01	Supersedes : 29/1/2004
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4. First aid measures (continued)

- redness persist.
- Ingestion : Rinse mouth. DO NOT INDUCE VOMITING. Call a physician immediately.

5. Fire - fighting measures

- Flammable class : This product is flammable.
- Prevention : No naked lights. No smoking.
- Extinguishing media : Carbon dioxide. Foam.
- Surrounding fires : Use water spray or fog for cooling exposed containers.
- Special exposure hazards : May form flammable vapour-air mixture.
- Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures : Exercise caution when fighting any chemical fire.
Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures

- Technical measures : Eliminate every possible source of ignition.
- Personal precautions : Equip cleanup crew with proper protection. No smoking.
- Environmental precautions : Prevent entry to sewers and public waters. Toxic to aquatic organisms. Notify authorities if product enters sewers or public waters.
- After spillage and/or leakage : Clean up any spills as soon as possible, using an absorbent material to collect it. Use appropriate container to avoid environmental contamination. Dilute residues and flush. Recover the cleaning water for later disposal.

7. Handling and storage

- General : No naked lights. No smoking.
- Precautions in handling and storage : Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures.
- Technical protective measures : Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.
- Storage : Store in tightly closed, properly ventilated containers away from heat, sparks, open flame.
Keep in fireproof place.
- Handling : Handle in accordance with good industrial hygiene and safety procedures. Ensure prompt removal from eyes, skin and clothing. Keep away from food, drink and animal feeding stuffs. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

8. Exposure controls / personal protection

Personal protection



- Respiratory protection : Where exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.
- Hand protection : Gloves.
- Skin protection : In case of possible repeated skin contact wear protective clothing.

MATERIAL SAFETY DATA SHEET	Page : 3
	Revision nr : 2
ref ISO : 123456 CHRYSO®Decolav N01	Date : 15/3/2004
	Supersedes : 29/1/2004
	D0407 <small>www.lisam.com</small>

8. Exposure controls / personal protection (continued)

- | | |
|--------------------|--|
| - Eye protection | : Safety glasses. |
| - Ingestion | : When using, do not eat, drink or smoke. |
| Industrial hygiene | : Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. |

9. Physical and chemical properties

- | | |
|---------------------|-------------------|
| Physical state | : Liquid. |
| Colour | : Blue. |
| Odour | : Characteristic. |
| Density | : > 1 |
| Solubility in water | : Not miscible. |
| Flash point [°C] | : -2 |

10. Stability and reactivity

- | | |
|----------------------|--|
| Hazardous reactions | : None under normal conditions. |
| Hazardous properties | : May form flammable vapour-air mixture. |
| Conditions to avoid | : Overheating. Open flame. |

11. Toxicological information

- | | |
|----------------------------|---|
| Rat oral LD50 [mg/kg] | : Hydrocarbon solvent (aliphatic) : > 2000 mg/kg.
Acid citric : 11700 mg/kg. |
| Rabbit dermal LD50 [mg/kg] | : Hydrocarbon solvent (aliphatic) : > 2000 mg/kg. |

12. Ecological information

- | | |
|--------------------------------|---|
| Ecological effects information | : Avoid release to the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| LC50-96 Hour - fish [mg/l] | : Acid citric : 440-706 mg/L. |

13. Disposal considerations

- | | |
|----------|--|
| Disposal | : Avoid release to the environment. Dispose of this material and its container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/national regulations. |
|----------|--|

14. Transport information

Hazard Label(s)



- | | |
|-------------|-------------|
| - UN No. | : 1866 |
| - H.I. nr : | : 33 |
| - ADR/RID | : Class : 3 |
| | Group : II |
| - IMO-IMDG | : Class : 3 |

MATERIAL SAFETY DATA SHEET	Page : 4
	Revision nr : 2
ref ISO : 123456	Date : 15/3/2004
CHRYSO®Decolav N01	Supersedes : 29/1/2004
	D0407 <small>www.lisam.com</small>

14. Transport information (continued)

- ICAO/IATA : Class : 3
Group : II

15. Regulatory information

Symbol(s) : Irritant.
Highly flammable.
Dangerous for the environment.

R Phrase(s) : R11 - Highly flammable.
R36/38 - Irritating to eyes and skin.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 - Vapours may cause drowsiness and dizziness.

S Phrase(s) : S09 - Keep container in a well-ventilated place.
S16 - Keep away from sources of ignition - No smoking.
S23 - Do not breathe spray.
S24/25 - Avoid contact with skin and eyes.
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.
S29/35 - Do not empty into drains ; dispose of this material and its container in a safe way.

Contains : Hydrocarbon solvent (aliphatic).

16. Other information

Recommended uses and restrictions : See product bulletin for detailed information.
Print date : 5/4/2004

The contents and format of this MSDS are in accordance with EEC Commission Directive 2001/58/EC.

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