

CHRYSO®Fluid L
High range water reducing - superplasticising admixture.**SAFETY DATA SHEET**
(REACH regulation (EC) n° 1907/2006 - n° 453/2010)Classification:
Health Hazard**1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY**Substance/preparation
Trade name: **CHRYSO®Fluid L**
Normal use: AdmixtureCompany
CHRYSO Southern Africa (Pty) LTD
Tel: +27(0)11 395 9700 | Fax: +27(0)11 397 6644
Website: za.chryso.com
Sharecall facility: 0861 CHRYSO**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Product description: High range water reducing - superplasticising admixture.

Mixtures composition:

Identification	(EC) 1272/2008	67/548/EEC	Note	%
CAS: 126-71-6 EC: 204-798-3 REACH: 01-2119957118-32 TEIISOBUTYLPHOSPHATE	GHS07 Wng Skin Sens. 1,H317	Xi Xi;R43		0 <= x % < 2.5
INDEX: 605-001-00-5 CAS: 50-00-0 EC: 200-001-8 FORMALDEHYDE	GHS06, GHS05, GHS08 Dgr Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Acute Tox. 3, H331 STOT SE 3, H335 Muta. 2, H341 Carc. 1B, H350	T Carc. Cat. 2;R45 Muta. Cat. 3;R68 T;R23/24/25 C;R34 Xi;R43	B D [1] [2]	0 <= x % < 2.5

Information on ingredients:

- [1] Substance for which maximum workplace exposure limits are available.
[2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

3. IDENTIFICATION OF HAZARDS

CHRYSO®Fluid L
High range water reducing - superplasticising admixture.**Inhalation**

CHRYSO®Fluid L is not expected to present a significant hazard under the anticipated conditions for normal use; however inhalation that exceeds the ASGIH TLV may cause respiratory irritation, dizziness, nausea or cancer.

Ingestion

No hazards anticipated from ingestion incidental to industrial exposure. However, if more than several mouthfuls are swallowed, abdominal discomfort, nausea, salivation, diarrhea and respiratory difficulties may occur.

Eyes

CHRYSO®Fluid L may cause eye irritation.

Skin

CHRYSO®Fluid L is expected to cause no more than minor skin irritation (dryness). Prolonged contact may cause reddening/itching of the skin. Material is sometimes encountered at elevated temperatures so thermal burns may be possible.

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 resulting in symptoms stipulated in section 3 (identification of hazards), move the patient into fresh air and keep him/her warm and still. Administer oxygen. Seek medical attention if symptoms persist. Do not give the patient anything orally.

Ingestion

With ingestion, (if conscious) wash out mouth thoroughly with fresh water or milk and give one or two glasses of water to drink. Do not induce vomiting, except on the advice of medical personnel. Seek medical advice if gastro-intestinal symptoms develop and show this material safety data sheet.

Eyes

CHRYSO®Fluid L is splashed in or has any contact with a person's eyes hold the eyelids open and wash thoroughly with water for at least 10 to 15 minutes. Seek medical assistance if symptoms persist and supply this material safety data sheet.

Skin

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

5. FIRE FIGHTING MEASURES

Non-flammable.

Suitable extinguishing media: foam, halon (may not be permissible in some countries), carbon dioxide and misting water spray (fog)

Special fire fighting procedures: Use water spray to cool the drums/containers that have been exposed to fire. Fire fighting personnel should be equipped with autonomous insulating breathing apparatus.

Hazards: Thick black smoke. Toxic gases (carbon monoxide, aldehydes, ketones, combustion products of nitrogen and sulphur and carbon dioxide) may be emitted on thermal decomposition.

6. MEASURES TO BE TAKEN IN THE EVENT OF ACCIDENTAL SPILLAGE**Safety precautions**

Ventilate the area. Be careful, the nature of product may result in a slippery surface. Remove all sources of ignition. Consult safety measures under section 7 and section 8 of this data sheet (handling and storage, exposure control/personal safety). Equip the clean up crew with proper protection.

Environmental safety precautions

CHRYSO®Fluid L
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Prevent any material from entering drains or waterways. Use drums to dispose of waste in accordance with section 13 of this data sheet (disposal considerations). If **CHRYSO®Fluid L** contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures.

Cleaning methods

Clean up spills as soon as possible and use disposable containers. Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

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.

7. HANDLING AND STORAGE

The regulations that apply to the storage premises of **CHRYSO®Fluid L** must apply to site where the product is handled.

Precautions for safe handling:

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

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 exposure - obtain special instructions before use.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the mixture is used.

Packaging:

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

8. EXPOSURE CONTROL/PERSONAL SAFETY**Respiratory protection**

Where exposure through inhalation may exceed TLV limits, approved respiratory protection is recommended of class FFP2. Provide adequate ventilation in order to minimise vapour concentrations.

Skin protection

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.

Eye protection

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

CHRYSO®Fluid L
High range water reducing - superplasticising admixture.**Control parameters:**

- South Africa / DOL CL (Department of Labour, Control limits, 1995):						
CAS:	TWA:	STEL:	Ceiling:	Definition:	Criteria:	
50-00-0	2 ppm	2 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	2 ppm	-	-	-	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (@25°C):	liquid
Colour:	brown
Odour:	characteristic
pH:	9.00 Slightly basic
Density:	>1
Water solubility:	soluble

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.

Hazardous polymerization will not occur.

Thermal decomposition may release/form: toxic gases like carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Presumed human carcinogen.

Substances-

Acute toxicity:

TRISOBUTYLPHOSPHATE (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)

Mixture

Respiratory or skin sensitisation:

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

Monograph(s) from the IARC (International Agency for Research on Cancer):

CAS 50-00-0 : IARC Group 1 : The agent is carcinogenic to humans.

12. ECOLOGICAL INFORMATION

No specific eco toxicity data is available on this product.

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13. DISPOSAL CONSIDERATIONS

Waste management of this product and/or container must be determined in accordance with Directive 2008/98/EC. 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.

Empty packaging container completely. Keep label(s) on container. Give to a certified disposal contractor.

14. TRANSPORT INFORMATION

Not considered hazardous for transport.

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
- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014..

Usage restrictions apply to the product : See annex XVII of EC regulation No. 1907/2006.

For professional users only.

16. OTHER INFORMATION

Print date 01/09/2017

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®Fluid 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.