Version: N°2 (18/10/2018) CHRYSO GULF LLC

## CHRYSO®Optima 1105 - PF002426Q



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## SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name: CHRYSO®Optima 1105

Product code: PF002426Q.

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Concrete and mortar admixture.

## 1.3. Details of the supplier of the safety data sheet

Registered company name: CHRYSO GULF LLC.

Address: Technical Department, Light Industrial Area, Mesaieed City.Box: 22849.Doha.QATAR.

Telephone: +974 4450 0840. Fax:.

fds.chryso@chryso.com www.chryso-group.com

## 1.4. Emergency telephone number:.

Association/Organisation: .

#### SECTION 2 : HAZARDS IDENTIFICATION

## 2.1. Classification of the substance or mixture

# In compliance with EC regulation No. 1272/2008 and its amendments.

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

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).

# 2.2. Label elements

## In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P273 Avoid release to the environment.

Precautionary statements - Disposal:

P501 Dispose of contents/container to a collect point for special or hazardous waste.

#### 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

#### Composition:

II 'C' '	(EC) 1070/0000	NT. 4	Ø
Identification	(EC) 1272/2008	Note	%
CAS: 112-18-5	GHS07, GHS05, GHS09		$0 \le x \% < 1$
EC: 203-943-8	Dgr		
REACH: 01-2119486658-18	Acute Tox. 4, H302		
	Skin Corr. 1B, H314		
DODECYLDIMETHYLAMINE	Aquatic Acute 1, H400		
	M Acute = 10		
	Aquatic Chronic 1, H410		
	M Chronic = 1		

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#### **SECTION 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.

#### 4.1. Description of first aid measures

#### In the event of swallowing:

Seek medical attention, showing the label.

## 4.2. Most important symptoms and effects, both acute and delayed

No data available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No data available.

#### **SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

## 5.1. Extinguishing media

No data available.

#### 5.2. 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 (CO2)

## 5.3. Advice for firefighters

No data available.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

# 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

# For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

## 6.2. 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.

# 6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

## 6.4. Reference to other sections

No data available.

## SECTION 7: HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

# 7.1. Precautions for safe handling

Always wash hands after handling.

# Fire prevention:

Prevent access by unauthorised personnel.

# $\label{lem:Recommended equipment and procedures:} \\$

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.

# 7.2. Conditions for safe storage, including any incompatibilities

No data available.

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#### **Packaging**

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

#### 7.3. Specific end use(s)

No data available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

No data available.

#### 8.2. 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)

# - Body protection

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.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

# **General information:**

Physical state : Fluid liquid.
Odour : Characteristic
Colour : Pale yellow

# Important health, safety and environmental information

pH: 4.98 .

Boiling point/boiling range : Not relevant.
Flash point interval : Not relevant.
Vapour pressure (50°C) : Not relevant.

Density: > 1
Water solubility: Soluble.
Melting point/melting range: Not relevant.
Self-ignition temperature: Not relevant.
Decomposition point/decomposition range: Not relevant.

#### 9.2. Other information

No data available.

Slightly acidic.

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## **SECTION 10: STABILITY AND REACTIVITY**

## 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

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

## 10.3. Possibility of hazardous reactions

No data available.

#### 10.4. Conditions to avoid

Avoid:

- frost

#### 10.5. Incompatible materials

No data available.

# 10.6. Hazardous decomposition products

The thermal decomposition may release/form:

- carbon monoxide (CO)
- carbon dioxide (CO2)

## SECTION 11: TOXICOLOGICAL INFORMATION

# 11.1. Information on toxicological effects

No data available.

#### 11.1.1. Substances

#### Acute toxicity:

DODECYLDIMETHYLAMINE (CAS: 112-18-5)

Oral route : LD50 = 1220 mg/kg

Species: Rat

OECD Guideline 401 (Acute Oral Toxicity)

# Serious damage to eyes/eye irritation:

DODECYLDIMETHYLAMINE (CAS: 112-18-5)

Species: Rabbit

## Germ cell mutagenicity:

DODECYLDIMETHYLAMINE (CAS: 112-18-5)

No mutagenic effect.

Mutagenesis (in vivo): Negative.

OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

# Carcinogenicity:

DODECYLDIMETHYLAMINE (CAS: 112-18-5)

Carcinogenicity Test: Negative.

No carcinogenic effect.

OECD Guideline 451 (Carcinogenicity Studies)

## Reproductive toxicant:

DODECYLDIMETHYLAMINE (CAS: 112-18-5)

No toxic effect for reproduction

OECD Guideline 414 (Prenatal Developmental Toxicity Study)

# 11.1.2. Mixture

No toxicological data available for the mixture.

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# **SECTION 12: ECOLOGICAL INFORMATION**

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

#### 12.1. Toxicity

#### 12.1.1. Substances

DODECYLDIMETHYLAMINE (CAS: 112-18-5)

Fish toxicity: LC50 = 1.13 mg/l

Duration of exposure: 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity: EC50 = 0.926 mg/l

Factor M = 1

Species : Daphnia magna Duration of exposure : 48 h

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

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Algae toxicity: ECr50 = 0.0268 mg/l

Factor M = 10

Species : Desmodesmus subspicatus Duration of exposure : 72 h

OECD Guideline 201 (Alga, Growth Inhibition Test)

EC10 mg/l Factor M = 1

#### **12.1.2.** Mixtures

No aquatic toxicity data available for the mixture.

# 12.2. Persistence and degradability

## 12.2.1. Substances

DODECYLDIMETHYLAMINE (CAS: 112-18-5)

Biodegradability: Rapidly degradable.

#### 12.3. Bioaccumulative potential

No data available.

## 12.4. Mobility in soil

No data available.

## 12.5. Results of PBT and vPvB assessment

No data available.

#### 12.6. Other adverse effects

No data available.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

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

#### 13.1. 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.

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SECTION 14: TRANSPORT INFORMATION

Exempt from transport classification and labelling.

14.1. UN number

-

14.2. UN proper shipping name

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14.3. Transport hazard class(es)

-

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

## **SECTION 15: REGULATORY INFORMATION**

# 15.1. 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:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2016/1179. (ATP 9)

- Container information:

No data available.

- Particular provisions :

No data available.

15.2. Chemical safety assessment

No data available.

## **SECTION 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.

#### Wording of the phrases mentioned in section 3:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

# 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.

 $WGK: Wasserge fahrdungsklasse \ (Water\ Hazard\ Class).$ 

PBT: Persistent, bioaccumulable and toxic. vPvB: Very persistent, very bioaccumulable. SVHC: Substances of very high concern.