(in accordance with Regulation (EU) 2015/830)

# **ASTRAL Trichlor Powder**



**ASTRAL**POOL

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

#### 1.1 Product identifier.

Product Name: ASTRAL Trichlor Powder

 Chemical Name:
 symclosene

 Index No:
 613-031-00-5

 CAS No:
 87-90-1

 EC No:
 201-782-8

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

Desinfectant

#### Uses advised against:

Uses other than those recommended.

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

Company: FLUIDRA COMMERCIAL, S.A.U.

Address: Avda. Francesc Macià, 60, 20ª planta City: 08208 Sabadell

City: 08208 Sabadell
Province: (Barcelona) Spain
Telephone: Tel: +34 93 724 39 00
Fax: Fax: +34 93 724 29 93
E-mail: clientes@fluidra.es
Web: www.astralpool.com

### 1.4 Emergency telephone number:

Anti poisoning centre:

ITALY (Rome): 06/305 43 43 ITALY (Milan): 02/66 10 10 29

SPAIN: +34 91 562 04 20

FRANCE (Paris): 01 40 05 48 48 FRANCE (Tolousse): 05 61 77 74 47 FRANCE (Marseille): 04 91 75 25 25

PORTUGAL: 808 250 143

### **SECTION 2: HAZARDS IDENTIFICATION.**

### 2.1 Classification of the substance.

In accordance with Regulation (EU) No 1272/2008:

Acute Tox. 4: Harmful if swallowed.

Aquatic Chronic 1: Very toxic to aquatic life with long lasting effects.

Eye Irrit. 2 : Causes serious eye irritation. Ox. Sol. 2 : May intensify fire; oxidiser. STOT SE 3 : May cause respiratory irritation.

### 2.2 Label elements.

#### Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms:

(in accordance with Regulation (EU) 2015/830)

# **ASTRAL Trichlor Powder**

 Version: 1
 Page 2 of 9

 Revision date: 16/01/2017
 Print date: 16/01/2017

**ASTRAL**POOL







# Signal Word:

# **Danger**

H statements:

H272 May intensify fire; oxidiser.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

P statements:

P221 Take any precaution to avoid mixing with combustibles.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P370+P378 In case of fire: Use appropriate extinguishing products. P270 Do no eat, drink or smoke when using this product.

P261 Avoid breathing dust.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash hands thoroughly after handling.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P102 Keep out of reach of children.

P405 Store locked up.

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with applicable regulations.

**EUH statements:** 

EUH031 Contact with acids liberates toxic gas.

EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).

Contains: symclosene

# 2.3 Other hazards.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.**

3.1 Substances.

 Chemical Name:
 symclosene

 Index No:
 613-031-00-5

 CAS No:
 87-90-1

 CE No:
 201-782-8

# 3.2 Mixtures.

Not Applicable.

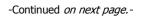
# **SECTION 4: FIRST AID MEASURES.**

#### 4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

#### Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.



(in accordance with Regulation (EU) 2015/830)

# **ASTRAL Trichlor Powder**



**ASTRAL**POOL

#### Eye contact.

If wearing contact lenses, remove them. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

#### Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. **NEVER** use solvents or thinners.

#### Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. **NEVER** induce vomiting.

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

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate. Can cause allergic reactions.

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

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

### 5.1 Extinguishing media.

# Recommended extinguishing methods.

Extinguisher powder or  $CO_2$ . In case of more serious fires, also alcohol-resistant foam and water spray. Do not use a direct stream of water to extinguish.

#### 5.2 Special hazards arising from the substance.

#### Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

# 5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

### Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES.**

### 6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see section 8.

# 6.2 Environmental precautions.

Product dangerous for the environment, in case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation. Prevent the contamination of drains, surface or subterranean waters, and the ground.

#### 6.3 Methods and material for containment and cleaning up.

The contaminated area should be immediately cleaned with an appropriate de-contaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

### 6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

(in accordance with Regulation (EU) 2015/830)

# **ASTRAL Trichlor Powder**



**ASTRAL**POOL

#### **SECTION 7: HANDLING AND STORAGE.**

#### 7.1 Precautions for safe handling.

For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers. In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Keep the product in containers made of a material identical to the original.

#### 7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III)::

		Qualifying quantity (tonnes) for the application of	
Code	Description	Lower-tier requirements	Upper-tier requirements
P8	OXIDISING LIQUIDS AND SOLIDS	50	200

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

None in particular.

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.**

# 8.1 Control parameters.

The product does NOT contain substances with Professional Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values.

CAS: 87-90-1

TLV TWA - 0.5 ppm (1.5 mg/m3) Cl gas TLV STEL - 1 ppm (3.0 mg/m3) Cl gas

# 8.2 Exposure controls.

# Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %				
Uses:	Desinfectant				
<b>Breathing protecti</b>	Breathing protection:				
PPE:	Filter mask for protection against gases and particles.				
Characteristics:	«CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.				
CEN standards:	EN 136, EN 140, EN 405				
Maintenance:	Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor.				
Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Att the necessary filters to the equipment according to the specific nature of the risk (Particles and aer P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.					
Filter Type needed:	A2				
Hand protection:					
PPE:	Work gloves.				
Characteristics:	«CE» marking, category I.				
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420				
	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible.				
Maintenance:	Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or				
	adhesives.				
Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight.  Always use with clean, dry hands.				
Material:	PVC (polyvinyl chloride) Breakthrough time (min.): Material thickness (mm): 0,35				

(in accordance with Regulation (EU) 2015/830)

# **ASTRAL Trichlor Powder**

 Version: 1
 Page 5 of 9

 Revision date: 16/01/2017
 Print date: 16/01/2017

Eye protection:

If the product is handled correctly, no individual protection equipment is necessary.

Skin protection:

PPE: Work footwear.

Characteristics: «CE» marking, category II. CEN standards: EN ISO 13287, EN 20347

Maintenance: This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should

not be used by other people.

Observations: Work footwear for professional use includes protection elements aimed at protecting users against any

injury resulting from an accident

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.**

### 9.1 Information on basic physical and chemical properties.

Appearance:Solid Colour: White

Odour:Similar to bleach Odour threshold:N.A./N.A.

pH:2 - 3 (1%)
Melting point: > 230 °C
Boiling Point: N.A./N.A.
Flash point: N.A./N.A.
Evaporation rate: N.A./N.A.

Inflammability (solid, gas): > 250°C Lower Explosive Limit: N.A./N.A. Upper Explosive Limit: N.A./N.A. Vapour pressure: N.A./N.A. Vapour density:N.A./N.A. Relative density:1.03 g/cm³ Solubility:1.2g /100ml Liposolubility: N.A./N.A. Hydrosolubility: N.A./N.A.

Partition coefficient (n-octanol/water): 0.94

Auto-ignition temperature: 2°C

Decomposition temperature: N.A./N.A.

Viscosity: N.A./N.A.

Explosive properties: N.A./N.A.

Oxidizing properties: Si

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

#### 9.2 Other information.

Pour point: N.A./N.A. Blink: N.A./N.A.

Kinematic viscosity: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

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

#### 10.1 Reactivity.

Contact with acids liberates toxic gas.

If the storage conditions are satisfied, does not produce dangerous reactions.

# 10.2 Chemical stability.

Unstable in contact with:

- Bases.

# 10.3 Possibility of hazardous reactions.

Warning! Do not use together with other products. May release dangerous gases (chlorine).

May intensify fire; oxidiser.

Neutralization can occur on contact with bases.

### 10.4 Conditions to avoid.

**ASTRAL**POOL

(in accordance with Regulation (EU) 2015/830)

# **ASTRAL Trichlor Powder**

 Version: 1
 Page 6 of 9

 Revision date: 16/01/2017
 Print date: 16/01/2017

**ASTRAL**POOL

Avoid the following conditions:

- Contact with incompatible materials.
- Avoid contact with bases.

### 10.5 Incompatible materials.

Avoid the following materials:

- Bases.
- Flammable materials.
- Explosives materials.
- Toxic materials.
- Corrosive materials.

# 10.6 Hazardous decomposition products.

Depending on conditions of use, can be generated the following products:

- Oxygen.
- Corrosive vapors or gases.
- Oxidizing gases or vapors.

#### **SECTION 11: TOXICOLOGICAL INFORMATION.**

IRRITANT PREPARATION. Splatters in the eyes can cause irritation.

IRRITANT PREPARATION. The inhalation of spray mist or suspended particulates can irritate the respiratory tract. It can also cause serious respiratory difficulties, central nervous system disorders, and in extreme cases, unconsciousness.

#### 11.1 Information on toxicological effects.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

Splatters in the eyes can cause irritation and reversible damage.

### Toxicological information.

Name		Acute toxicity			
Name	Туре	Test	Kind	Value	
		LD50	Rat	490 mg/kg [1]	
	Oral				
		[1] EPA O	PP 81-1		
symclosene		LD50	Rabbit	>2000 mg/kg [1]	
	Dermal				
		[1] EPA O	PP 81-2		
CAS No: 87-90-1 EC No: 201-782	.8 Inhalation				

a) acute toxicity;

Product classified:

Acute toxicity (Oral), Category 4: Harmful if swallowed.

# b) skin corrosion/irritation;

Not conclusive data for classification.

# c) serious eye damage/irritation;

Product classified:

Eye irritation, Category 2: Causes serious eye irritation.

### d) respiratory or skin sensitisation;

Not conclusive data for classification.

#### e) germ cell mutagenicity;

Not conclusive data for classification.

# f) carcinogenicity:

Not conclusive data for classification.

# g) reproductive toxicity;

Not conclusive data for classification.

# h) STOT-single exposure;

Product classified:

(in accordance with Regulation (EU) 2015/830)

# **ASTRAL Trichlor Powder**



**ASTRAL**POOL

Specific target organ toxicity following a single exposure, Category 3:

i) STOT-repeated exposure;

Not conclusive data for classification.

j) aspiration hazard;

Not conclusive data for classification.

### **SECTION 12: ECOLOGICAL INFORMATION.**

### 12.1 Toxicity.

Name		Ecotoxicity			
		Туре	Test	Kind	Value
		Fish	LC50	Fish	0.32 mg/l (96h)
symclosene		Aquatic invertebrates	LC50	Daphnia	0.21 mg/l (48h)
CAS No: 87-90-1	EC No: 201-782-8	Aquatic plants			

### 12.2 Persistence and degradability.

No information is available about persistence and degradability of the product.

### 12.3 Bioaccumulative potencial.

No information is available regarding the bioaccumulation.

# 12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

#### 12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

#### 12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

# **SECTION 13 DISPOSAL CONSIDERATIONS.**

#### 13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

### **SECTION 14: TRANSPORT INFORMATION.**

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

**Land:** Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

Sea: Transport by ship: IMDG.

Transport documentation: Bill of lading **<u>Air</u>**: Transport by plane: ICAO/IATA. Transport document: Airway bill.

(in accordance with Regulation (EU) 2015/830)

# **ASTRAL Trichlor Powder**

 Version: 1
 Page 8 of 9

 Revision date: 16/01/2017
 Print date: 16/01/2017

**ASTRAL**POOL

# **14.1 UN number.** UN No: UN2468

### 14.2 UN proper shipping name.

Description:

ADR: UN 2468, TRICHLOROISOCYANURIC ACID, DRY, 5.1, PG II, (E)

IMDG: UN 2468, TRICHLOROISOCYANURIC ACID, DRY, 5.1, PG II, MARINE POLLUTANT

ICAO: UN 2468, TRICHLOROISOCYANURIC ACID, DRY, 5.1, PG II

#### 14.3 Transport hazard class(es).

Class(es): 5.1

# 14.4 Packing group.

Packing group: II

#### 14.5 Environmental hazards.

Marine pollutant: Yes



Dangerous for the environment

#### 14.6 Special precautions for user.

Labels: 5.1



Hazard number: 50 ADR LQ: 1 kg IMDG LQ: 1 kg ICAO LQ: 2,5 kg

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-A,S-Q

Proceed in accordance with point 6.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code.

The product is not transported in bulk.

### **SECTION 15: REGULATORY INFORMATION.**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance.

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): P8

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

#### 15.2 Chemical safety assessment.

There has been no evaluation a chemical safety assessment of the product.

(in accordance with Regulation (EU) 2015/830)

# **ASTRAL Trichlor Powder**





### **SECTION 16: OTHER INFORMATION.**

#### Classification codes:

Acute Tox. 4 [Oral]: Acute toxicity (Oral), Category 4

Aquatic Acute 1 : Acute toxicity to the aquatic environment, Category 1 Aquatic Chronic 1 : Chronic effect to the aquatic environment, Category 1

Eye Irrit. 2 : Eye irritation, Category 2 Ox. Sol. 2 : Oxidising solid, Category 2

STOT SE 3: Specific target organ toxicity following a single exposure, Category 3

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Information on the TSCA Inventory (Toxic Substances Control Act) USA:

CAS No	Name	State
87-90-1	symclosene	Registered

#### Abbreviations and acronyms used:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CEN: European Committee for Standardization.
EC50: Half maximal effective concentration.
PPE: Personal protection equipment.
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

#### Key literature references and sources for data:

http://eur-lex.europa.eu/homepage.html

http://echa.europa.eu/

Regulation (EU) 2015/830. Regulation (EC) No 1907/2006. Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.