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

ASTRAL Dichloro Granules 55%



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

1.1 Product identifier.

Product Name: Chemical Name: Index No: CAS No: EC No: ASTRAL Dichloro Granules 55% troclosene sodium, dihydrate 613-030-01-7 51580-86-0 220-767-7

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. Avda. Francesc Macià, 60, 20ª planta Address: City: 08208 Sabadell Province: (Barcelona) Spain Telephone: +34 93 724 39 00 +34 93 724 29 93 Fax: E-mail: fds@astralpool.com 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. STOT SE 3 : May cause respiratory irritation.

2.2 Label elements.

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





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Warning

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statements:	
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:

P102	Keep out of reach of children.
P273	Avoid release to the environment.
P501	Dispose of contents/container in accordance with applicable regulations.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor//if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P305+P351+F	P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
easy to do. Co	ontinue rinsing.

EUH statements:

EUH031 Contact with acids liberates toxic gas.

Contains: troclosene sodium, dihydrate

Active substances:

troclosene sodium, dihydrate, 100%;

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: Index No: CAS No: CE No: troclosene sodium, dihydrate 613-030-01-7 51580-86-0 220-767-7

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.

If wearing contact lenses, remove them. 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.

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. Remove the person from the contaminated area. If the person is unconscious, lay on his side with head lower and knees half bent.

Keep body temperature.

Move to the intoxicated person to a hospital and, whenever possible, bring the container or label.

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Immediately take off all contaminated clothing. Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. OBTAIN IMMEDIATE MEDICAL ATTENTION. Wash thoroughly the body (shower or bath). Remove contaminated clothing immediately and dispose off safely. After contact with skin, wash immediately with soap and plenty of water. 4.2 Most important symptoms and effects, both acute and delayed. Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance Contact with skin: irritation. Contact with eyes: irritation. Swallowing: irritation to mucosal and digestive tract corrosion. Nausea Vomiting Delayed hypersensitivity Hepatic-renal disorders and neurotoxic. Inhalation: irritation to mucosal and respiratory tract. 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. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Treatment: The dilution with water or milk is appropiate if there was no vomiting (adults from 120 - 140 ml, children do not exceed 120 ml). Contraindication: Neutralization with bicarbonate. In case of ingestion, assess the performance of an endoscopy. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES.

The product does not present any particular risk in case of fire.

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.

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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.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

For personal protection, see section $\overline{8}$. 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
E1	ENVIRONMENTAL HAZARDS - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1	100	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. Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Туре	Value
troclosene sodium, dihydrate N. CAS: 51580-86-0 N. CE: 220-767-7	DNEL (Workers)	Inhalation, Long-term, Systemic effects	8,11 (mg/m³)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated. DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

CAS: 51580-86-0 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	
Breathing protection:		

If the recommended technical measures are observed, no individual protection equipment is necessary.

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Hand protection PPE:	Protective gloves against chemicals.				
Characteristics:	«CE» marking, category III.				
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420				
Maintenance:	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. 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 > 480 Material thickness (mm): 0,35				
Eye protection:					
PPE: Characteristics:	PE: Protective goggles against particle impacts.				
CEN standards:	EN 165, EN 166, EN 167, EN 168				
Maintenance:	Maintenance: Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.				
Observations:	Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.				
Skin protection:					
PPE:	Work footwear.				
Characteristics:	racteristics: «CE» marking, category II.				
CEN standards:					
Maintenance:	enance: 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:Granulate Colour: White Odour:Similar to bleach Odour threshold:N.A./N.A. pH:6 - 7 (25 °C) (1%) Melting point: 250 °C Boiling Point: N.A./N.A. Flash point: No inflamable °C Evaporation rate: N.A./N.A. Inflammability (solid, gas): N.A./N.A. 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:0.91 (25 °C) g/cm³ Solubility:28g / 100ml Liposolubility: N.A./N.A. Hydrosolubility: N.A./N.A. Partition coefficient (n-octanol/water): - 0.0556 Auto-ignition temperature: N.A./N.A. Decomposition temperature: N.A./N.A. Viscosity: N.A./N.A. Explosive properties: N.A./N.A. Oxidizing properties: No

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

9.2. Other information.

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SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

Contact with acids liberates toxic gas.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid.

Avoid any improper handling.

10.5 Incompatible materials.

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6 Hazardous decomposition products.

No decomposition if used for the intended uses.

SECTION 11: TOXICOLOGICAL INFORMATION.

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
	Oral	LD50	Rat	1671 mg/kg [1]
		[1] EPA OP	P 81-1	
troclosene sodium, dihydrate	Dermal	LD50	Rat	> 5000 mg/kg [1]
	Derma	[1] EPA OP	P 81-2	
CAS No: 51580-86-0 EC No: 220-767-7	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;

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Product classified:

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			
Name	Туре	Test	Kind	Value
	Fish			
troclosene sodium, dihydrate	Aquatic invertebrates	EC50	Daphnia	0.196 mg/l
CAS No: 51580-86-0 EC No: 220-767-7	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 Air: Transport by plane: ICAO/IATA. Transport document: Airway bill

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14.1 UN number. UN No: UN3077

14.2 UN proper shipping name.

Description: UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS TROCLOSENE SODIUM, DIHYDRATE), 9, PG III, (E)

14.3 Transport hazard class(es).

Class(es): 9

14.4 Packing group.

Packing group: III

14.5 Environmental hazards.



Dangerous for the environment

14.6 Special precautions for user.

Labels: 9



Hazard number: 90 ADR LQ: 5 kg

Provisions concerning carriage in bulk ADR:

VC1 Carriage in bulk in sheeted vehicles, sheeted containers or sheeted bulk containers is permitted.

VC2 Carriage in bulk in closed vehicles, closed containers or closed bulk containers is permitted.

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

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.

See annex I of the Directive 96/82/EC of 9 December 1996 on the control of major-accident hazards involving dangerous substances.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): E1

Information related to Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products:

Product Type	Group
Disinfectants and algaecides not intended for direct application to humans or animals	Disinfectants
Active substances	Concentration %
troclosene sodium, dihydrate	
N. CAS: 51580-86-0	100
N. CE: 220-767-7	

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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.

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 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.

Labelling in accordance with Directive 67/548/EEC:

Symbols:





environment R Phrases: R22 Harmful if swallowed. R31 Contact with acids liberates toxic gas. R36/37 Irritating to eyes and respiratory system. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. S Phrases: S2 Keep out of the reach of children. **S**8 Keep container dry. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S41 In case of fire and/or explosion do not breathe fumes. This material and its container must be disposed of as hazardous waste. S60 Avoid release to the environment. Refer to special instructions/safety data sheets. S61

Other Phrases:

Attention! Do not use together with other products. They can give off dangerous gases (chlorine).

Contains:

troclosene sodium, dihydrate

Active substances:

troclosene sodium, dihydrate, 100%;

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

CAS No	Name	State
51580-86-0	troclosene sodium, dihydrate	

Abbreviations and acronyms used:

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

CEN: European Committee for Standardization.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be

considered a tolerable minimum.

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not

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anticipated.

EC50: Half maximal effective concentration.
PPE: Personal protection equipment.
IATA: International Air Transport Association.
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 (EC) 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.