

Safety Data Sheet

20/10/2008, version 2
(2001/58/CE)

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Trade name: Multi-Action Tablet
 Product type and use: desinfectant
 Company:
 Astral Pool, S.A.U.

Emergency telephone number of the company and/or of an authorised advisory centre:
 ASTRAL POOL, S.A.U. - Telefono: 34 93 713 63 44

Competent person responsible for the safety data sheet:
 fds@astralpool.com

2. HAZARDS IDENTIFICATION

Contact with acids liberates toxic gas.
 Harmful if swallowed.
 Irritating to eyes and respiratory system.
 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

Quantity	N.67/548/CEE	CAS	EC	Name / Classification
90% - 100%	613-031-00-5	87-90-1	201-782-8	symclosene O,Xn,Xi,N; R22-31-36/37-50-53-8

4. FIRST AID MEASURES

UNDER NO CIRCUMSTANCES SHOULD THE INTOXICATED PERSON BE LEFT UNATTENDED

Description of the symptoms:

- Contact with skin: may cause irritation.
- Contact with eyes: may cause irritation.
- Swallowing: may cause irritation of the gastrointestinal tract. CNS depression.
- Inhalation may cause irritation of the respiratory tract. Possibly pneumonia.

Contact with skin:

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.

Contact with eyes:

Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 15 minutes.
 Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief. OBTAIN A MEDICAL EXAMINATION.

Swallowing:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
 Drink large quantities of water and/or milk. Do not administer any kind of substance whatsoever if the person is unconscious.

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Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. OBTAIN MEDICAL ATTENTION.

Clinical information:

In the event of ingestion, consider performing an endoscopic evaluation.
Hydroelectrolytic control.
Do not neutralise with acids or bases.
Symptomatic treatment.

5. FIRE-FIGHTING MEASURES

Recommended extinguishers:

USE ABUNDANT WATER. Do not attempt to put out the fire without special breathing apparatus (See paragraph 8).
Clean equipment immediately after use.

Extinguishers not to be used:

Do not use ABC extinguishers containing nitrogen, due to risk of violent chemical reaction.

Risks arising from combustion:

Not flammable, though if heated to over 230°C gives off a highly toxic gas: gaseous chlorine (Cl₂).
Avoid inhaling the fumes.

Protective equipment:

Use protection for the respiratory tract.

6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use gloves and protective clothing.

Environmental measures:

Limit leakages with earth or sand.
If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Cleaning methods:

If the product is in a liquid form, stop it from entering the drainage system.
Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.
After the product has been recovered, rinse the area and materials involved with water.

7. HANDLING AND STORAGE

Handling precautions:

Use rubber gloves and face mask or protective goggles (see paragraph 8). After handling, wash thoroughly any materials and clothing used in the handling process.

Storage conditions:

Keep away from acids.
Do not use metal or wooden containers or drums.
Keep the container closed.
Store in a dry place whose temperature never exceeds 50 °C at any time of the day or night.
If this product is to be stored with others, ensure that it is kept in a separate compartment.
It should be left near an exit door, with the pathway clear of obstacles, in case the product has to be evacuated speedily outdoors.

Instructions as regards storage premises:

Adequately ventilated premises.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.
Compatible materials for working with this product are neoprene, chlorized polyethylene, butyl rubber and saranex.

Respiratory protection:

Use homologated breathing equipment if the exposure risk is exceeded (see TLV). It is advisable to wear full face protection, as if this is used, there will be no need to wear a shield or protective goggles. In the event of a fire, use independent breathing equipment with air supply on demand and full face protection for exposure to gaseous chlorine. In the event of dusty conditions, use breathing equipment that has a cartridge for acid gases and a prefilter for the dust. Observe the restrictions regarding use imposed on breathing equipment by the law or the recommendations of the manufacturer of that equipment.

Protection for hands:

Use protective gloves.

Eye protection:

Use glasses of safety.
It is advisable to have a near space where to wash the eyes in case of contact.

Protection for skin:

Use clothing that provides comprehensive protection to the skin.

Exposure limit(s) (ACGIH):

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical properties:	Tablets
Colour:	White
Odour:	Similar to bleach
pH:	2 - 3 (1%)
Melting point:	> 230 °C can be broken down
Solid/gas flammability:	> 250 °C
Explosive properties:	Only if it comes into contact with: (see point 10)
Oxidizing properties:	No

10. STABILITY AND REACTIVITY

Conditions to avoid:

Stable under normal conditions.

Substances to avoid:

Metals, acetic acid and anhydride, alcohols (methyl, ethyl, isopropyl...), non-saturated aliphatic and aromatic compounds, amides, amines, ammoniac and ammonium salts (polyquats or quaternary ammonium salts), biuret, calcium hypochlorite, dimethylhydrazine, esters, fungicides, glycerine, oils and fats, paint, peroxides (of hydrogen, sodium, calcium, magnesium...), phenols, solvents (toluenes, xylenes, turpentine...), surfactants and surface tension agents, reducing agents (sulphites, sulphides, bisulphites, tiosulphates and nitrates).

Hazardous decomposition products:

When wet, it gives off Cl₂ (gaseous chlorine) and NCl₃ (trichloramine).
In the presence of ammonia gas or ammoniacal solutions, dangerous quantities of NCl₃, a highly explosive gas, are generated.
Hydrogen peroxide reacts violently, but releases O₂ (oxygen).
Adding oils and grease will cause the product to break down, generating Cl₂ and CO₂.

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When it reacts with alcohols, in particular, with lauric alcohol, it remains latent for a few minutes, and will then react violently, producing flames and black smoke.

When it reacts with ethers, cyanuric acid and chlorinated ethers are generated.

11. TOXICOLOGICAL INFORMATION

The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

symclosene

LD50 (RAT) ORAL: 600 MG/KG

LD50 (RABBIT) SKIN: 20000 MG/KG

12. ECOLOGICAL INFORMATION

Adopt good working practices, so that the product is not released into the environment.

List of substances dangerous for the environment and corresponding classification:

90% - 100% symclosene

N.67/548/CEE: 613-031-00-5 CAS: 87-90-1 EC: 201-782-8

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Avoid release to the environment. Refer to special instructions/Safety data sheets.

Where applicable, refer to the following regulatory provisions : 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

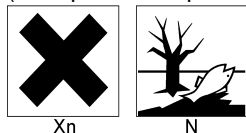
14. TRANSPORT INFORMATION

ADR-UN Number:	3077
ADR-Class:	9
ADR-HI number:	90
ADR-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (symclosene)
ADR-Packing Group:	III
ADR-S.P.:	274, 601
IATA-UN Number:	3077
IATA-Class:	9
IATA-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (symclosene)
IATA-Passenger Aircraft:	911
IATA-Cargo Aircraft:	911
IATA-Label:	Miscellaneous
IATA-Packing group:	III
IATA-S.P.:	A97
IATA-ERG:	9L
IMDG-Marine pollutant:	Marine Pollutant
IMDG-UN Number:	3077
IMDG-Class:	9
IMDG-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (symclosene)
IMDG-Packing group:	III
IMDG-EmS:	F-A , S-F
IMDG-Storage category:	A

15. REGULATORY INFORMATION

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Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Commission Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparation) and subsequent amendments. Commission Directive 98/24/EC (Protection of the health and safety of workers from the risk related to chemical agent). Commission Directive 2000/39/EC (Occupational exposure limit values). Regulation (EC) No 1907/2006 (REACH).



Symbols:

Xn Harmful
N Dangerous for the 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:

S13 Keep away from food, drink and animal feedingstuffs.
S2 Keep out of reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29/56 Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.
S41 In case of fire and/or explosion do not breathe fumes.
S46 If swallowed, seek medical advice immediately and show this container or label.
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
S8 Keep container dry.

Contents:

symclosene

Special Provisions:

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

Notes:

PACK2 The packing must have tactile indications of danger for blind people.

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE (Activities linked to risks of serious accidents) and subsequent amendments.

16. OTHER INFORMATION

Text of R phrases referred to under heading 3:

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.
R8 Contact with combustible material may cause fire.

Paragraphs modified from the previous revision:

2. HAZARDS IDENTIFICATION
13. DISPOSAL CONSIDERATIONS
14. TRANSPORT INFORMATION
15. REGULATORY INFORMATION

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

Safety Data Sheet

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

ACGIH - Threshold Limit Values - 2004 edition

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.