

SAFETY DATA SHEET

1 Identification of the substance or preparation and of the company/undertaking

Product Name: **ADVANTAGE TABLETS**
 Datasheet Number: 625715 6. 0. 0
 Use of the substance/preparation: Pool / spa treatment
 Product Part Number: 625715 (25 kg)
 Name of Supplier: Wilhelmsen Ships Service AS
 Address of Supplier: Willem Barentszstraat 50
 3165 A B
 Rotterdam
 Telephone: +31 10 4877 777
 Fax: +31 10 4877 888
 Responsible Person: Patrick Rijsdijk, Corporate Product HSE Manager, Tel.: +31 6 349 44 035
 Email: Patrick.Rijsdijk@Wilhelmsen.com
 Name of Manufacturer: UNITOR CHEMICALS AS
 Address of Manufacturer: P.O.Box 15
 3141 Kjøpmannskjær
 Norway.
 Telephone: +47 333 515 00
 Emergency Telephone: NCEC: +44 1865 407333, CHEMTREC (800) 424 9300
 American Chemistry Council +1 703 527 3887, Greece +30 210 7793777

2 Hazards identification

- Odour: Characteristic odour
- Appearance: Tablets, blue, soluble in water
- Contact with eyes: Irritating to eyes (R36)
- Contact with skin: May cause irritation
- Inhalation: Irritating to respiratory system (R37)
- Ingestion: Harmful if swallowed (R22)
- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R50/53)



Harmful



Dangerous for the Environment

3 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases*	Symbols
Trichloroisocyanuric acid	<73	87-90-1	201-782-8	8, 22, 31, 36/37, 50/53	O, Xn, N
Non classified ingredients	>27	-	-	-	-

*See Section 16

4 First aid measures

4 First aid measures (....)

Contact with skin

- Wash affected area with plenty of soap and water
- When in doubt or symptoms persist, seek medical attention
- Remove contaminated clothing
- Contaminated clothing should be laundered before reuse

Contact with eyes

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Irrigate eyes thoroughly whilst lifting eyelids
- Obtain immediate medical attention

Ingestion

- Never make an unconscious person vomit or drink fluids
- Give plenty of water to drink
- Seek immediate medical attention

Inhalation

- Remove patient to fresh air
- Keep warm and at rest
- When in doubt or symptoms persist, seek medical attention

General

- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)
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5 Fire-fighting measures

- Not flammable but will support combustion
 - May give off noxious and toxic fumes in a fire
 - Substance evolves toxic fumes, wear self-contained breathing apparatus
 - In case of fire and/or explosion do not breathe fumes (S41)
 - Prevent run off water from entering drains if possible
 - In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide (S43)
 - Do not use dry agent
-

6 Accidental release measures

Personal Precautions

- Wear protective clothing as per section 8
- Avoid raising dust

Environmental Precautions

- Do not allow to enter public sewers and watercourses

Immediate Actions

- Use appropriate containment to avoid environmental contamination (S57)

Clean Up Actions

- Sweep or shovel-up spillage and remove to a safe place
- Ventilate the area and wash spill site after material pick-up is complete

Special Precautions

- Avoid raising dust
 - Wear protective clothing as per section 8
 - Avoid release to the environment. Refer to special instructions/Safety data sheets (S61)
-

7 Handling and storage

Handling

- Wear protective clothing as per section 8
- Avoid contact with skin and eyes (S24/25)
- Do not breathe vapour/fumes (S23)
- Eyewash bottles should be available
- Ensure adequate ventilation

Storage

- Keep only in the original container in a cool, well ventilated place away from combustible material (S3/9/14/49)
 - Do not store above 50 °C
 - Keep away from acid (S14)
 - Protect from moist air
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8 Exposure controls and personal protection

Exposure Limits

- There are no recommended or established controls for this product

Exposure controls

- No special precautions are required for this product

Occupational exposure controls

- Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)
- Respiratory protection may be required under exceptional circumstances when excessive air contamination exists



Gloves



Goggles



Suit

No Smoking

9 Physical and chemical properties

- Odour: Characteristic odour
 - Appearance: Tablets, blue, soluble in water
 - pH 3 - 3.5 at 1 % concentration
 - Boiling point - not known, decomposes
 - Vapour pressure - not applicable
 - Vapour density - not applicable
 - Melting point 225 °C at 760 mm /Hg
 - Completely soluble in water
 - Not flammable but will support combustion
-

10 Stability and reactivity

- This article is considered stable under normal conditions
 - Avoid overheating
 - Incompatible with acid, Contact with acids liberates very toxic gas (R32)
 - See Section 5
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11 Toxicological information

11 Toxicological information (....)

Toxicological information

- LD50 (oral, rat) 406 mg/kg
- LD50 (dermal) : 7600 mg/kg

Inhalation

- In cases of severe exposure, irritation may develop

Contact with skin

- In cases of severe exposure, irritation may develop

Contact with eyes

- May cause severe irritation

Ingestion

- Harmful if swallowed (R22)
- The ingestion of significant quantities may cause damage to digestive system

Carcinogenicity

- No evidence of carcinogenic effects
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12 Ecological information

Ecotoxicity

- May cause acute effects in the aquatic environment
- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R50/53)

Mobility

- Completely soluble in water

Persistence and Biodegradability

- Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.
- Degrades by hydrolysis
- Toxic to sewage works organisms

Bioaccumulation Potential

- Bioaccumulation of the components in this product is insignificant.

Other Adverse Effects

- No environmental problems are expected when the product is used / handled correctly. In its intended use, the product will not be released into the environment.
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13 Disposal considerations

Classification

- This material and/or its container must be disposed of as hazardous waste
- EU Waste class: 06.03.99

Disposal considerations

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
 - Disposal should be in accordance with local, state or national legislation
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14 Transport information

14 Transport information (....)

Dangerous Substance



Marine Pollutant

Proper Shipping Name: Environmentally Hazardous Substance, solid, N.O.S.(contains trichloroisocyanuric acid)

Emergency Action Code

UN

Road/Rail (ADR/RID)

Proper Shipping Name:	Environmentally Hazardous Substance, solid, N.O.S. (contains trichloroisocyanuric acid)		
ADR UN No.:	UN3077	ADR Hazard Class:	9
ADR Packing Group:	III	ADR subrisk:	-
ADR-RID Labels:	9 + Mar. Pol	ADR Flashpoint:	-

Sea (IMDG)

Proper Shipping Name:	Environmentally Hazardous Substance, solid, N.O.S. (contains trichloroisocyanuric acid)		
IMDG UN No.:	UN3077	IMDG Hazard Class.:	9
IMDG Pack Group.:	III	IMDG EmS:	F-A, S-F
IMDG subrisk:	-	IMDG Labels:	9 + Mar. Pol
IMDG Flashpoint:	-		

Air (ICAO/IATA)

Proper Shipping Name:	Environmentally Hazardous Substance, solid, N.O.S. (contains trichloroisocyanuric acid)		
ICAO Un No.:	UN3077	ICAO Hazard Class.:	9
ICAO Packing Group.:	III	ICAO subrisk:	-
ICAO Labels:	9 + Mar. Pol	ICAO Flashpoint:	-

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	Environmentally Hazardous Substance, solid, N.O.S. (contains trichloroisocyanuric acid)		
Hazardous Material:	contains trichloroisocyanuric acid	Hazard Class:	9
Identification Number:	UN3077	Product RQ (lbs):	-
DOT subrisk:	-	DOT Labels:	9 + Mar. Pol
DOT Flashpoint:	-		

15 Regulatory information

Harmful



Dangerous for the Environment

Risk Phrases

- Harmful if swallowed (R22)
 - Contact with acids liberates toxic gas (R31)
 - Irritating to eyes and respiratory system (R36/37)
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15 Regulatory information (....)

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

Safety Phrases

- Keep container dry (S8)
 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
 - In case of fire and/or explosion do not breathe fumes (S41)
 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)
 - 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)
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16 Other information

Text of R and S phrase codes used in this safety data sheet:- 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.

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)

This Safety Data Sheet is provided in compliance with The Dangerous Preparations Directive (88/379/EEC)

This Safety Data Sheet is provided in compliance with The Safety Data Sheets Directive (2001/58EC)