

MATERIAL SAFETY DATA SHEET

PRODUCT **AQUATABS 8.68gm NaDCC Tablet**

1.1 Identification of the substance/preparation

Product Name : Aquatabs

1.2 Company/undertaking identification

Manufacturer : Medentech Limited
 Whitemill Industrial Estate, Clonard Road, Wexford, Ireland
 Tel: +353 53 9160040
 Fax: +353 53 9141271

2. Composition/Information on Ingredients.

Ingredient	Weight in Product (% w/w)	EC Index No.	EC (EINECS) No.	Classification
Troclosene Sodium / 1,3,5 - Triazine - 2,4,6 (1H, 3H, 5H) - trione, 1, 3 - dichloro-, sodium salt CAS No. 2893 - 78 - 9	50.00%	613-030-00-X	220-767-7	O; X _n ; N R8, R22, R31, R36/37, R50/53
Adipic Acid CAS No. 000124-04-9	22.00%	607-144-0-9	201-132-3	X ₁ , R36,

Important Note: the classification descriptions given in this section relate to the components in their pure form and do not correspond to the classification of this preparation (see section 16 for full description of R phrases)
 The classification of Aquatabs as supplied is given in Section 15.

3. Hazards Identification.

Most Important Hazards: Classification according to the European Directive on Classification of Hazardous Preparations 1999/45/EC (Conventional Method)

Contact with combustible materials may cause fire
 Irritating to eyes and respiratory system
 Very toxic to aquatic organisms, may cause long term effects in the environment.

SHORT TERM EXPOSURE (ACUTE)

INHALATION:

Breathing dust or fumes is expected to be a primary route of exposure and may cause throat and respiratory tract irritation.

EYES:

Irritating to Eyes. Direct eye contact with the product may cause stinging, excess tearing and redness.

SKIN:

Not considered irritating to skin. Repeated skin contact may cause dermatitis and itching. Symptoms are generally alleviated when exposure ends.

INGESTION:

Ingestion of the product will irritate the mouth, oesophagus and other tissues of the digestive system. Symptoms of such over exposure may include vomiting, diarrhoea and nausea

REPEATED EXPOSURE (CHRONIC)

No known chronic effects

Chronic exposure to large amounts of this preparation has not yet been characterised and the irritating properties of the compound make such an exposure highly unlikely.

4. First Aid Measures.

- Inhalation : Move person to fresh air. If breathing is difficult have trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration. Get medical attention immediately.
- Skin contact : Immediately brush off excess chemical and flush with plenty of soap and water. Remove contaminated clothing. Wash clothing before reuse. If signs of irritation or discomfort, seek medical attention.
- Eye contact : Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and tissue. Obtain medical advice.
- Ingestion : Never give anything by mouth to an unconscious person. If swallowed do not induce vomiting. Give large quantities of water. (If available give several glasses of milk) If vomiting occurs spontaneously keep airway clear and give more water. Get medical attention if there are signs of discomfort or ill health .

5. Fire-Fighting Measures.Extinguishing Media

Do not attempt to extinguish the fire without a self contained breathing apparatus. Do not let the fire burn. Flood with copious amounts of water. Do not use dry chemical extinguishers since there is potential for a violent reaction.

Fire-Fighting Techniques/Comments

Firefighters should wear full protective clothing and a self contained breathing apparatus. Using a 10% solution of sodium carbonate, thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident

6. Accidental Release Measures.Personal Protection

Avoid contact with skin and eyes. Wear chemical safety goggles and chemical resistant gloves.

Handle product in a well ventilated area.

Environmental Protection

Do not release into the environment.

Prevent flow of material into water source and begin monitoring available chlorine and pH immediately.

Notify all down stream users of possible contamination.

Methods for Cleaning Up

Contain spilled material. Any spillage should be cleaned up as soon as possible. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean, dry containers for disposal. Do not close drums containing wet or damp material. Do not transport wet or damp material.

7. Handling and Storage.

General Handling

Do not get in eyes, on skin or on clothing.

Avoid breathing airborne particulates; wear respiratory protection when exposure is possible

Wear goggles or face shield and rubber gloves when handling.

Wash thoroughly with soap and water after handling.

Wash contaminated clothing before use.

Vapour space in a closed container may contain a slight amount of chlorine gas and compounds from decomposition of the product.

Special Mixing and Handling Instructions

Mix only with water. Use clean dry utensils. Do not mix this product with remnants of any other products. Such uses may cause a violent reaction leading to fire or explosion.

Contamination with moisture, organic matter or other chemicals may start a chemical reaction with generation of heat, liberation of hazardous gases, and possible generation of fire and explosion.

Vapour space in a closed container may contain a slight amount of chlorine gas and other chlorine containing compounds from decomposition of the product. Exposure to chlorine gas may cause burning of the eyes, burning of the nose and mouth and irritation of the linings of the respiratory tract with coughing, a choking sensation, substernal pain, vomiting, nausea, headache, dizziness and fainting.

Storage

Store in original container and in a cool dry area where temperatures do not exceed 52°C. Keep container tightly closed and store away from incompatible materials.

Do not allow water to get into the container.

Keep out of reach of children.

8. Exposure controls/personal protection.

Personal Protective Equipment: Wear chemical safety goggles and chemical resistant gloves

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment

Ventilation: Use only in well-ventilated areas.

9. Physical and Chemical Properties.

Appearance : White/off white tablet

Odour : Slight chlorine odour.

Solubility : Soluble in Water

pH : 5.0-6.0

Thermal Decomposition Temp.: 225 - 250°C

10. Stability and Reactivity.

Stability Data:	Stable
Incompatibility (Materials to avoid):	Strong acids and/or alkalis. Reducing agents. Combustible material. The active ingredient in this preparation is a strong oxidising agent. The preparation of concentrated solutions or slurries is not recommended. Avoid contact with water on concentrated material in the container. Also avoid contact with easily oxidisable organic material: ammonia, urea or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite and alkalis.
Hazardous Decomposition Products:	Chlorine containing gases can be produced
Polymerisation - Avoid:	Hazardous Polymerisation will not occur

11. Toxicological Information.

Skin and Eye Contact:	Irritating to Eyes. (Note: the in-use solution is not irritating to eyes) Not classified as Irritating to the skin Not a Potential Sensitiser
Ingestion:	Rat Oral LD ₅₀ > 2000mg/kg for the product supplied
Inhalation:	Sodium Dichloroisocyanurate is irritating to the respiratory system

12. Ecological Information.

Toxicity: This preparation is likely to be highly toxic to freshwater fish and invertebrates.

Species	Sodium Dichloroisocyanurate acid
Daphnia Magna	No Data Available
Rainbow Trout	LC50 (96 hr): 0.37ppm, Highly Toxic
Bluegill Sunfish	LC50 (96 hr): 0.43ppm, Highly Toxic
Mallard Duck	Oral LD50: 1916mg/Kg Slightly Toxic
Mallard Duck	8 day Dietary LC50: >10,000ppm Practically non-toxic
Bobwhite Quail	8 day Dietary LC50: >10,000ppm Practically non-toxic

Biodegradability: Sodium Dichloroisocyanurate will degrade rapidly in the environment through chemical activity.

13. Disposal Considerations.Product Disposal

Do not put product, spilled product, partially filled containers into the waste compactor. Contact with incompatible materials could cause a reaction and fire. Do not transport damp or wet material. Neutralise materials to a non-oxidising state for safe disposal.

Disposal of Packaging

Clean Container and dispose of according to local and national regulations

14. Transport Information.

Non Hazardous for Transportation

15. Regulatory Information.

EEC Directive : 93/112/EEC and 2001/58/EC.

EEC Classification/Labelling : 92/32/EEC.

EEC Safety Data Sheets Directive : 91/155/EEC

Indication of Danger: O - Oxidising
X_i – Irritant
N – Dangerous to the Environment.

Risk Phrases

R8 : Contact with combustible materials may cause fire
R31 : Contact with acids liberates toxic gases.
R36/37 : Irritating to eye and respiratory system.
R50/53 : Very toxic to the aquatic organisms, may cause long-term effects in the aquatic environment.

Safety Phrases

S2 : Keep out of reach of children.
S8 : 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 or explosion, do not breathe fumes.
S61 : Avoid release to the environment. Refer to special instructions/safety data sheet

16. Other Information.

The above information is intended to give general guidance as to health and safety. Whilst it is correct to the best of our knowledge and belief, no warranty can be given or implied that it will be adequate or applicable for all cases nor that the product will be suitable for any particular purpose since conditions of use are outside our control.

R phrases and Symbols used in Section 2

O Oxidising	R8 Contact with Combustible Materials may cause fire
Xn Harmful	R22 Harmful if swallowed
	R31 Contact with acid liberates toxic gases
Xi Irritant	R36/37 Irritating to Eyes and Respiratory System
N Dangerous for the Environment	R50/53 Very toxic to Aquatic Organisms. May cause long term effects in the aquatic environment.

The inclusion of these phrases in Section 2 is mandatory according to Directive 2001/58/EC

REVISION NO: 6	DATE 05.07.2006
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17. Revision History.

Revision no. 4 - Amendments to risk and safety phrases, hazard identification and toxicological Information
Revision No. 5 – Addition of information to Section 2
Revision No. 6 – Amendments made to Section 1.2 (Medentech phone & fax numbers)