

HYDRACHEM LIMITED

MATERIAL SAFETY DATA SHEET (MSDS 010/94/EEC)

1. Identification of the Preparation and of the Company

1.1 Identification of the Preparation:

Oasis Sterilising Tablets for Baby's Bottles and Equipment (Oasis 400mg)

1.2 Company Identification

Hydrachem Ltd
Gillmans Industrial Estate
Billingshurst
West Sussex RH14 9EZ
Telephone: 01 403 784332

1.3 Emergency Telephone Number

International Access Code + 44 1403 784332

2. Composition/Information on Ingredients

2.1 Chemical Name

Sodium Dichloroisocyanurate Anhydrous (NaDCC) 37.0% w/w
1,3,5 - Triazine -2,4,6 (1H,3H,5H) - Trione
1,3, - Dichloro, Sodium Salt

2.2 Synonym

Sodium Dichloro -1,3,5 - Triazinetrione Anhydrous
Sodium Dichloro - S - Triazine -2,4,6 (1H,3H,5H)-Trione
Sodium Troclosene

2.3 Chemical Family

Chlorinated S-Triazine Triones

2.4 Formula

$C_3Cl_2N_3O_3Na$

2.5 CAS Number

2893-78-9

2.6 EINECS Number

220-767-7

2.7 Chemical Name

Adipic Acid

1,6- Hexanedioic Acid - Range 10 - 40% w/w

2.8 Chemical Family

Saturated Dicarboxylic Acid

2.9 Formula

COOH (CH₂)₄COOH

2.10 Synonyms

1,4 - Butanedicarboxylic Acid

Adipinic Acid

2.11 CAS Number

124-04-9

2.12 EINECS Number

204-673-3

3. Hazards Identification

On contact with moisture, NaDCC readily decomposes to Chlorine, Hypochlorous Acid & Cyanuric Acid

3.1 Health Effects of Tablet (NOT resultant solution)

Effect On Skin: Irritation

Effect On Eyes: Irritation

Effect On Ingestion: Harmful if large quantity swallowed. Nausea, headache, vomiting & upper abdominal pain.

Effect On Inhalation

Unlikely route of exposure unless tablet breaks into powder, then material may be irritant to mucous membranes.

May be harmful if mixed with other cleaning agents

HSE Occupational Exposure Limits (EH40/94)

Long Term Exposure Limit to Chlorine - (8 hours TWA) 0.5ppm 1.5mgm⁻³

Short Term Exposure Limit to Chlorine - (10 minutes) 1ppm 3mgm⁻³

4. First Aid Measures

Eye Contact:

Immediately flush with plenty of clean water for at least 15 minutes. If irritation persists, seek medical attention.

Skin Contact:

Promptly wash thoroughly with water for at least 15 minutes while removing contaminated clothing. Wash any contaminated clothing well before re-use.

Ingestion:

Immediately rinse mouth, then drink plenty of water or milk. Do not induce vomiting. Seek medical attention.

Inhalation:

Move to fresh air. If irritation persists, seek medical attention.

5. Fire Fighting Measures

5.1 Special Fire or Explosion Hazards

Product is not flammable itself, but contact with combustible material may cause fire. Product combustible if dehydrated by drying. Decomposes above 250°C with release of chlorine & other toxic fumes.

A thermal decomposition can be extinguished by flooding with copious amounts of water or by isolating the decomposing material in open air and allowing it to be consumed. Use self-contained breathing apparatus and goggles. Do not approach from leeward.

5.2 Suitable Extinguishing Media

Pressurised water or dry powder. Do not use dry fire extinguishers containing ammonium compounds.

5.3 Other Recommendations

Remove the product if it is safe to do so, before using water for fire fighting, in order to minimise hazards from release of toxic fumes. It will often be safer to let the fire burn itself out. Where it is decided to fight the fire with water, large quantities **must** be used. If insufficient water is used there may be an explosion hazard associated with hot damp material.

6. Accidental Release Measures

Refer to section 8 for personal protection when handling spillages.

Any spillages should be cleaned up as soon as possible to prevent contamination with foreign materials with which it may react - see section 10, stability and reactivity.

Handle spillage carefully, do not return spilled material to original container. **If tablets are dry and uncontaminated**, collect up into heavy duty plastic bag; where possible and suitable, use material as originally intended. Wash away any residues with copious amounts of water.

If tablets are contaminated they should be transferred to waste ground, spread thinly and covered with a thin layer of earth; a smell of chlorine will be noted until the material has degraded. Keep people, vehicles and animals away from the disposal area.

If tablets become damp they will effervesce, evolving carbon dioxide and may decompose to give off chlorine fumes; transfer spillage to unsealed plastic bags avoiding any large masses of material within the bags and remove to waste ground for immediate treatment/disposal as above; avoid breathing fumes. Wash away residues with copious amounts of water.

If spillage of tablets is large (more than 100Kg), place into bins lined with polythene bags and eliminate in accordance with locally valid disposal regulations

7. Handling & Storage

7.1 Recommended Storage Conditions

Store away from all incompatibles and combustibles (see section 10). Store in a cool, dry, well ventilated place. Moisture sensitive. Avoid high humidity levels. Do not allow water to get into container. Keep away from fire, heat, flame & direct sunlight. Keep container tightly closed. Keep out of reach of children. Never store damp or contaminated material.

7.2 Recommended Handling Precautions

Avoid contact with eyes, skin & clothing.

When handling large quantities of tablets, wear chemical resistant gloves and safety

goggles.

Avoid breathing any dust.

Wash thoroughly after handling.

Use protective equipment recommended in section 8.

Do not eat, drink or smoke when handling this material.

8. Exposure Controls/Personal Protection

- 8.1 Respiratory Protection: Where any dust in the breathing zone cannot be controlled with ventilation, wear an officially approved respirator (NIOSH/MSHA or equivalent agency) for protection against airborne dust.
- 8.2 Ventilation: Use local exhaust ventilation where appropriate
- 8.3 Eye Protection: Not normally required, but if airborne dust concentrations are high, wear appropriate protective goggles. Wash eyes with clean water where there is potential eye contact.
- 8.4 Skin Protection: When handling large bulk quantities wear protective gloves.
Wash immediately if skin is contaminated. Remove and wash contaminated clothing and clean up equipment before re-use.
Wash thoroughly with soap and water after handling

9. Physical & Chemical Properties

- Appearance: White 25.4mm diameter flat bevelled tablet with breakline
- Odour: Characteristic Chlorine Odour
- pH: As is - not applicable
- pH: In solution - 5.0 - 6.0 approx.
- Solubility: Freely soluble
- Oxidising Properties: Non-oxidising
- Flash Point: Not flashing

Flammability: Not flammable
Autoflammability: Not autoflammable
Explosion Properties: Not explosive

10. Stability & Reactivity

10.1 Conditions to Avoid

Do not store on or near heat sources or naked flame. Avoid moisture. NaDCC decomposes at temperatures above 240°C liberating toxic gases.

10.2 Materials to Avoid

Contact with water liberates chlorine and with nitrogen compounds may cause explosion. Avoid organic materials, oils, grease, sawdust, reducing agents, nitrogen containing compounds, calcium hypochlorite, other oxidizers, acids, alkalis, cationic and certain non-ionic surfactants.
Avoid prolonged contact with metals.

11. Ecological Information

NaDCC is highly toxic to fish. Do not discharge into lakes, ponds, streams or public water unless in accordance with the permit of official regulations.

12. Disposal Information

Refer to section 6, then :-

Disposal should be done in accordance with all official regulations.
If material is dry, incineration is recommended.

13. Transport Information

Keep container strictly dry
Keep away from FIRE, HEAT, FLAME & DIRECT SUNLIGHT
Keep away from incompatible materials listed in section 10
Keep out of reach of children

UN Number: N/A
Packing Group: N/A
IMDG Code: N/A
IMDG Page: N/A
ADR/RID: N/A
ICAO/IATA: N/A

14. Regulatory Information

Not to be taken internally
Keep out of reach of children
In the event of accidental contact, with eyes, rinse immediately
with plenty of water and seek medical advice.
Store in a cool, dry place.
Avoid prolonged contact with metals.

Regulatory References:

The Chemicals (Hazard Information & Packaging) Regulations
1993.

15. Other Information

Information compiled 23.05.95

The information herein is based on data considered to be accurate as of the date of preparation of the Material Safety Data Sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information. The user assumes all liability for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.