

Material Safety Data Sheet
According to Regulation (EC) No: 1907/2006
Chlor-Clean Detergent Sanitiser Tablets
Revision Date: November 2007

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Identification: Chlorine Detergent Sanitiser Tablet
Product Code: **H8950/MIR**
Intended Use: Combined cleaning and disinfection of inanimate surfaces.

Name & address of Company:

Guest Medical Limited

Enterprise Way

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health hazard within the meaning of EEC Directive 91/155.

Product name	CAS No	EINECS	Conc Range	R phrases	Symbol	WEL
Troclosene Sodium (NaDCC)	2893-78-9	220-767-7	20-30% w/w	8, 22, 31, 36/37, 50/53	O, Xn, N	WEL
Adipic Acid	124-04-9	204-673-3	10-25% w/w	36	Xi	-
Amorphous silica	7631-86-9	231-86-9	0.5%			WEL

3. HAZARDS IDENTIFICATION

HARMFUL if swallowed. Irritating to eyes and respiratory system. Contact with acid liberates toxic gas. On contact with moisture, NaDCC readily decomposes to Chlorine, Hypochlorous Acid & Cyanuric Acid.

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

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.

Suitable Extinguishing Media: Pressurised water or dry powder. Do not use dry fire extinguishers containing ammonium compounds.

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. NaDCC may generate nitrogen trichloride when it is left under damp conditions.

6. ACCIDENTAL RELEASE MEASURES.

Refer to section 8 for personal protection when handling spillage of the product. Any spillage should be cleaned up as soon as possible to prevent contamination with foreign materials with which it may react. Do not release into the environment. Clean up spillage with a dry, plastic scoop. Any spillage should not be returned into the original container but place in a dry, clean, plastic or glass container. Do not add water to spilled material. Spillages to be removed as chemical waste in accordance with local, regional or national provisions in force (Hazardous Waste Directive 91/689/EEC). (Incineration by Certified Management Waste Company in England and Wales.) Do not release unneutralised NaDCC to sewers, water sheds and water systems.

7. HANDLING AND STORAGE.

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.

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

Workplace Exposure Limits
 (EH40/2005):

Long Term Exposure Limit to Chlorine – (8 hours TWA)	0.5ppm	1.5mgm ⁻³
Short Term Exposure Limit to Chlorine – (15 minutes)	1ppm	2.9mgm ⁻³
Long term exposure Limit to amorphous silica – (8 hours TWA) -		6mgm ⁻³

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.

Ventilation: Use local exhaust ventilation where appropriate

Eye Protection: If airborne dust concentrations are high, wear appropriate protective goggles. Wash eyes with clean water where there is potential eye contact.

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 AND CHEMICAL PROPERTIES

Appearance:	White flat bevelled tablet	Vapour pressure:	N/A
Odour:	Characteristic Chlorine Odour	Relative density:	N/A
pH:	As is - not applicable	Partition coefficient: n-octanol/water:	N/A
pH:	In solution - 5.0 - 6.0 approx.	Viscosity:	N/A
Solubility:	Freely soluble	Vapour density:	N/A
Oxidising Properties:	Non-Oxidising	Evaporation rate:	N/A
Flash point:	Not flashing		
Flammability:	Not flammable		
Autoflammability:	Not autoflammable		
Explosion Properties:	Not explosive		

10. STABILITY AND REACTIVITY

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.

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.

11. TOXICOLOGICAL INFORMATION

Route of entry: Inhalation, skin contact & ingestion.

Inhalation of NaDCC is irritating to the nose, mouth, throat and lungs.

Ingestion of NaDCC can cause irritation and/or burns to the gastrointestinal tract.

Skin & Eye Contact: with NaDCC can cause severe irritation and/or burns, characterized by redness, swelling and scab formation. May cause impairment of vision and corneal damage.

Toxicological Data: NaDCC

Acute toxicity

Oral LD50 (rat) ca. 1825mg/kg

Eye Irritation (rabbit) Severe irritant

Rabbit dermal LD50 >20,000mg/kg

Carcinogenicity

This chemical is not considered to be carcinogenic by any reference source.

12. 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.

13. DISPOSAL CONSIDERATIONS

Disposal should be done in accordance with local, regional or national provisions in force (Hazardous Waste Directive 91/689/EEC). (Incineration by Certified Management Waste Company in England and Wales.

14. TRANSPORT INFORMATION

Keep container strictly dry

Keep away from FIRE, HEAT, FLAME & DIRECT SUNLIGHT. Keep out of reach of children

UN Number: 3077

Packing Group: III

IMDG Code: Class 9

ADR/RID: Class 9 (M7) miscellaneous dangerous substances and articles

ICAO/IATA: No dangerous goods according to IATA-DGR

Proper shipping name: Sodium dichloroisocyanurate, anhydrous

Designation of goods: Environmentally Hazardous Substance, Solid, N.O.S.

15. REGULATORY INFORMATION

Label for supply: HARMFUL

Risk Phrases:

R22	Harmful if swallowed
R31	Contact with acids liberates toxic gas
R36/37	Irritating to eyes and respiratory system
R 50/53	Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Safety Phrases:

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 and/or explosion do not breathe fumes

Regulatory References: The Chemicals (Hazard Information & Packaging & Supply) (Amendment) Regulations 2005. (Chip 3.1)



HARMFUL



DANGEROUS FOR THE ENVIRONMENT

16. OTHER INFORMATION

Full test Risk phrases (section 1): 51/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Change from previous revision: sections 2, 5 and 8 updated.

The information herein is based on data considered to be accurate as of the date of preparation of this 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.

Changes from Previous Issue: Section 1, 3, 6, 9 & 13 updated.