



NORSAN UK
12 GATWICK DISTRIBUTION CENTRE
CRAWLEY
WEST SUSSEX
RH10 9RW

TEL: 0845 340 3230
FAX: 0845 034 3239
EMAIL: sales@norsan.co.uk
WEB: www.norsan.co.uk



MATERIAL SAFETY DATA SHEET PRODUCT INFORMATION

BLEACH TABLETS

(1.7g Sodium Dichloroisocyanurate (NaDCC, troclosene sodium))

SECTION 1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

NORSAN BLEACH TABLETS

Fast Dissolving Effervescent Chlorine
Disinfectant Tablets

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

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1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE/MIXTURE AND USES ADVISED AGAINST

General Description: A safer, cheaper and more convenient method of producing an active chlorine solution when required for sterilisation. For use in hospitals, surgical areas, laboratories, toilets and washroom areas, bottling plants, food processing plants, schools, residential homes, pathology departments, blood contamination spillages, catering, food preparation surfaces, laundries, vending machines, swimming pools and agricultural and farming facilities. Each tablet contains 1.7g sodium dichloroisocyanurate, which is effective against gram positive and gram negative bacteria, viruses and fungi. These tablets are extremely stable whereas liquid bleach loses its activity in storage very quickly. Effervescent and quick dissolving these tablets take up less space than liquid bleach.

Directions For Use: For general disinfection in clinical environments dissolve 1 tablet into 1LT clean water to make a solution of 1,000 parts per million (ppm/L). Soak or wipe desired surfaces and leave for at least 5 minutes. For blood spills or very soiled (dirty) conditions dissolve 10 tablets per 1LT of clean water to make 10,000 ppm. For baby feeding equipment dissolve 1 tablet into 8LT of clean water and leave for 30 minutes minimum. For disinfecting salads, vegetables and non peelable fruit, dissolve 1 tablet in 20LT of clean water and soak produce for 5-10 minutes. If produce is not to be used immediately, soak for 15 minutes. Consult pharmacy or pathology laboratories for specific strengths required for given conditions. Shelf life in tablet form is 5 years.

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLASSIFICATION UNDER CLP
(EC) NO 1272/2008 [EU-GHS/CLP]

ENVIRONMENT

CLASSIFICATION UNDER CHIP
(67/548/EEC OR 1999/45/EEC)

Acute Toxicity: Oral – Category 5.
Acute Toxicity: Inhalation – Category 4 (unlikely unless tablets crushed)
Eye Damage/Irritation: Category 2a
Specific Target Organ Toxicity: (single exposure) – Respiratory Tract
irritation – Category 3.

Aquatic Acute 1, Aquatic Chronic 1.

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

2.2 LABEL ELEMENTS

PICTOGRAM CODE

GHS07

GHS09

PICTOGRAM



SIGNAL WORD

WARNING

HAZARD STATEMENTS

H302 - Harmful if swallowed.

H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H410 - Very toxic to aquatic life with long-lasting effects.

PRECAUTIONARY STATEMENTS

PREVENTION

P261 - Avoid breathing dust/fumes/gas or spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

STORAGE

P102 - Keep out of reach of children.
P402+P404 - Store in a dry place. Store in a closed container.

RESPONSE

P304+312 - IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

DISPOSAL

P501 - Dispose of contents/container to licensed waste disposal site.

2.3 OTHER HAZARDS

EUROPEAN UNION (DANGEROUS SUBSTANCES DIRECTIVE)

EUH031 - Contact with acids liberates toxic gas.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

SUBSTANCE	SYNONYM	FORMULA	CAS. NO	EINECS No.
Sodium Dichloroisocyanurate Anhydrous (NaDCC) 51% w/w 1,3,5 - Triazine -2,4,6 (1H,3H,5H) - Trione 1,3, - Dichloro, Sodium Salt	Sodium Dichloro -1,3,5 - Triazinetrione Anhydrous Sodium Dichloro - S - Triazine -2,4,6 (1H,3H,5H)-Trione Troclosene Sodium	$C_3Cl_2N_3O_3Na$	2893-78-9	220-767-7
Adipic Acid 1,6- Hexanedioic Acid - Range 10 - 25% w/w	1,4 - Butanedicarboxylic Acid Adipinic Acid	$COOH(CH_2)_4COOH$	124-04-9	204-673-3

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE

Remove contaminated clothing and wash before reuse.

AFTER INHALATION

Move the exposed person(s) to fresh supply of air. Get medical attention if discomfort continues.

AFTER CONTACT WITH SKIN

Wash from skin immediately. If skin becomes sore or inflamed seek medical attention.

AFTER CONTACT WITH EYES

Irrigate with water for 10 to 15 minutes until irritation subsides and seek medical attention.

AFTER INGESTION

If conscious, give plenty of water to drink, do not induce vomiting, obtain medical attention immediately.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

The severity of symptoms described will vary depending on concentration and length of exposure.

INHALATION

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

CONTACT WITH SKIN

Irritation and burning.

CONTACT WITH EYES

Irritation and burning.

INGESTION

Harmful if swallowed. Nausea, headache, vomiting & upper abdominal pain.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically. Use water to neutralize product in the case of skin, eye contact or ingestion.

SECTION 5: FIREFIGHTING MEASURES

5.1 SUITABLE EXTINGUISHING MEDIA

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

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Product combustible if dehydrated by drying. Decomposes above 250°C with release of chlorine & other toxic fumes.

5.3 ADVICE FOR FIRE FIGHTERS

Wear self-contained breathing apparatus and protective clothing as appropriate to the associated fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Always use appropriate PPE. Avoid breathing dust/vapours (if any) and ensure adequate ventilation. Cordon off area to other personnel.

6.2 ENVIRONMENTAL PRECAUTION

Do not allow to enter surface water drains, soil/subsoil. Spillages or discharges into water course must be reported immediately to environment agency.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

If spillage of tablets is more than 100KG place into bins lined with polythene bags and eliminate in accordance with locally valid disposal regulations.

6.4 REFERENCE TO OTHER SECTIONS

See Section 8 and 13 for more information on exposure and disposal.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Provide good ventilation in working area. Wash hands after use and do not allow to enter surface water drains.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store only in original containers out of reach of children. Storage temperature should in a cool, dry place be between 5°C and 30°C.

7.3 SPECIFIC END USE(S)

See section 1.2 and label.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

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.

8.2 EXPOSURE CONTROLS

Do not eat, drink or smoke whilst working and wash hands after use.

PICTOGRAM(S)



WEAR SUITABLE
HAND PROTECTION



WEAR SUITABLE EYE
PROTECTION



WEAR SUITABLE
RESPIRATORY
PROTECTION

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/ODOUR

White flat bevelled tablet with characteristic chlorine odour.

pH LEVEL

In solution - 5.0 - 6.0 approx.

FLAMMABLE/FLASH POINT

Not flammable.

SOLUBILITY

Soluble/dispersible in water.

VISCOSITY

9.2 OTHER INFORMATION

No information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

Extremely reactive to (LIQUID) acids, alkalis & reactive to cationic and certain non-ionic surfactants.

10.2 CHEMICAL STABILITY

Product is considered very stable.

10.3 POSSIBILITY OF HAZARDOUS REACTION

Under normal conditions hazardous reactions will not occur. Mixing this product with (liquid) acid solutions or ammonia will release Chlorine Gas.

10.4 CONDITIONS TO AVOID

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

10.5 INCOMPATIBLE MATERIALS

Avoid direct contact with organic materials.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

INHALATION

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

CONTACT WITH SKIN

NaDCC can cause severe irritation and/or burns, characterized by redness, swelling and scab formation. May cause impairment of vision and corneal damage.

CONTACT WITH EYES

Severe irritant. NaDCC can cause severe irritation and/or burns, characterized by redness, swelling and scab formation. May cause impairment of vision and corneal damage.

INGESTION

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

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY

NaDCC is highly toxic to fish if released in large quantities in confined volume of water.

12.1 TOXICITY

Do not discharge into lakes, ponds, streams or public water unless in accordance with the permit of official regulations.

12.2. PERSISTENCE AND DEGRADABILITY

12.3. BIOACCUMULATIVE POTENTIAL

12.4. MOBILITY IN SOIL

12.5. RESULTS OF PBT AND VPVB ASSESSMENT

12.6. OTHER ADVERSE EFFECTS

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

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

SECTION 14: TRANSPORT INFORMATION

14.1. UN NUMBER

14.2. UN PROPER SHIPPING NAME

NORSAN BLEACH TABLETS

14.3. TRANSPORT HAZARD CLASS(ES)

14.4. PACKING GROUP

14.5. ENVIRONMENTAL HAZARDS

14.6. SPECIAL PRECAUTIONS FOR USER

Keep container strictly closed & dry. Keep away from FIRE, HEAT, FLAME & DIRECT SUNLIGHT.

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE

SECTION 15: REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

STATUTORY INSTRUMENTS	Classified under GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.
APPROVED CODE OF PRACTICE	Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.
GUIDANCE NOTES	ECHA Guidance on the application of CLP criteria (Version 4: November 2013). ECHA Guidance on the compilation of safety data sheets (Version 2.1: February 2014)

15.2. CHEMICAL SAFETY ASSESSMENT

SECTION 16: OTHER INFORMATION

16.1. REVISION COMMENTS

This product is now using classification from GHS/CLP- Regulation (EC) No 1272/2008 classification and labelling & packaging of. The risk statements listed below relate to the raw materials in the product not the product itself.

RISK PHRASES IN FULL (CHIP)	
HAZARD STATEMENT IN FULL (CLP)	H302 - Harmful if swallowed.
	H319 - Causes serious eye irritation.
	H335 - May cause respiratory irritation.
	H410 - Very toxic to aquatic life with long-lasting effects.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use. The user assumes all liability for any damage or injury resulting from abnormal use, from the failure to adhere to recommended practises, or from hazards inherent in the nature of the product. In accordance with our policy of incorporating technical improvements, we reserve the right to amend any specification without notice.