SAFETY DATA SHEET



Product Name: TRICHLOR TABLETS (20 gm, 100

SDS Reference

005

gm, 200 gm, 500 gm)

Version No. 1 Revision No. Authorisation date September 13th, 2006

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name TRICHLOROISOCYANURIC ACID TABLETS

Synonym (s) CHLORINE TABLETS; STABILISED CHLORINE TABLETS; MINI TABS; MAXI TABS

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation CHLORINATED ISOCYANURATE

 CAS number
 87-90-1

 EINECS number
 201-782-8

 EC Index number
 613-031-00-5

3. HAZARDS IDENTIFICATION



Physical & Chemical: CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE

OXIDISING



Health: HARMFUL IF SWALLOWED.

CONTACT WITH ACIDS LIBERATES TOXIC GAS IRRITATING TO EYES AND RESPIRATORY SYSTEM.

HARMFUL

¥22

Environmental:

VERY TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

DANGEROUS FOR THE ENVIRONMENT

4. FIRST AID MEASURES

General information

Inhalation Remove casualty to fresh air and provide warmth and rest. If necessary seek medical advice.

Skin contact Wash contaminated skin with soap and large quantities of water at least 15 minutes. Remove

contaminated clothing immediately and wash before re-use. If necessary seek medical advice.

Eye contact Immediately wash out eye thoroughly with plenty of water until irritation subsides. If irritation

persists, seek medical advice (e.g. an ophthalmologist)

Ingestion Do NOT induce vomiting. Drink plenty of water and if necessary seek medical advice

Further information

5. FIRE FIGHTING MEASURES

General hazard THE PRODUCT WILL BURN IN A FIRE

Extinguishing media In case of fire, ONLY use copious amounts of water.

Extinguishing media not to

be used

Small volumes of water, foam, dry chemical

Special exposure hazards The thermal decomposition products released should be considered toxic if inhaled. Do not

approach fire from a leeward direction.

Protective equipment Wear self-contained breathing apparatus.

Further information Contact with combustible material may cause fire

Avoid run-off water entering the drains (e.g. use barriers)

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up Adhere to personal protective measures. Take up mechanically (e.g. sweep or vacuum up)

into a suitable container. Label container and dispose of as prescribed. Clean up a spillage with a dry, plastic scoop. Any spillage should be returned into the original container but in a dry, clean,

plastic or glass container. Wash remainder away with much water.

Environmental considerations

Do not allow the product to enter ground or waste water. If this occurs, inform the local water authority at once.

Further information

7. HANDLING & STORAGE

Advice on safe handling Handle in accordance with good hygiene and safety practice. Do not breathe dust or fumes. May be

fatal if swallowed.

Keep the raising and deposition of dust to a minimum. Keep away from combustible materials (e.g.

organic substances).

Keep away from sources of ignition - NO SMOKING!

Storage conditions Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool (< 25°C) and

dry. Keep away from incompatible materials. TCCA may react with these materials forming toxic

chlorine gas.

Further information Avoid contact with nitrogen containing compounds (e.g. ammonia, urea, amines).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls Monitoring of the workplace should be considered in accordance with EH40 (or equivalent)

controls.

LTEL (8 hour TWA): ppm 10 mg/m³ Total inhalable dust (EH40/2005)

LTEL (8 hour TWA): ppm 4 mg/m³ Respirable dust (EH40/2005)

LTEL (8 hour TWA): 0.5 ppm 1.5 mg/m³ WEL for chlorine (EH40/2005)

LTEL (8 hour TWA): 0.5 ppm 1.5 mg/m^3 WEL for chlorine (EH40/2005) STEL (15 min): 1.0 ppm 2.9 mg/m^3 WEL for chlorine (EH40/2005)

Engineering controls Ensure adequate ventilation of working area (e.g. local exhaust ventilation).

Personal protection Observe normal standards for handling chemicals.

Avoid breathing dust and released chlorine gas and eye and skin contact.

Wash hands before breaks and after work.

Wear personal protective equipment appropriate to the task (see below)

Eye protection Safety goggles or face shield (i.e. EN 166 approved)

Skin protection Natural rubber latex gloves (also consider your own risk assessment; e.g. breakthrough times, rates

of diffusion and degradation, tasks undertaken)

Respiratory protection When dusty conditions are encountered, wear a NIOSH/OSHA full face respirator with chlorine

cartridge and dust pre-filter.

Other protection Protective overall

9. PHYSICAL & CHEMICAL PROPERTIES

Physical form Tablets or crystalline solid

Colour White

Odour Chlorine-like

pH 2.5-3.3 (1% aqueous solution 25 Celsius)

Boiling pt / range N/A °C

Melting pt / range 225-230 °C (decomposes)

Flash point Not °C

flammable

Auto flammability °C

Density

Explosive limits Lower: % (v/v) Higher: % (v/v)

Water solubility At. 1.0 g/100g water @ 25°C

Additional information

10. STABILITY & REACTIVITY

Stability Danger of explosion if heated.

10. STABILITY & REACTIVITY

Thermal decomposition 225°C. Exothermic decomposition is self-sustaining with evolution of toxic gases.

Conditions to avoid Heat, small quantities of water, contact with combustible materials.

Material to avoid The product is incompatible with oxidisable substances, acids and nitrogen containing chemicals.

Hazardous reactions Exothermic reactions may occur with oxidisable organic or inorganic substances. Reaction with

acids causes release of chlorine. Reacts violently with small volumes of water to generate explosive

nitrogen trichlorides.

Hazardous decomposition

products

Chlorine and traces of phosgene above 200°C.

11. TOXICOLOGICAL INFORMATION

Acute toxicity LD₅₀ rat (oral) 1,000 mg/kg Slightly toxic

Dermal compatibility Moderate irritant causing erythema and oedema (rabbit)

Mucous membrane

compatibility

Severely irritant (rabbit eye)

12. ECOLOGICAL INFORMATION

Acute toxicity LC₅₀ Fish mg/l No data available

Degradability No data available

Further information The product is toxic to fish and aquatic organisms. Do not allow to get into waste water or

waterways; if this occurs, inform the relevant water authority at once.

German water hazard class (WGK) = 2 (hazardous)

13. DISPOSAL CONSIDERATIONS

Advice on disposal In accordance with national and local authority regulations, e.g. The Hazardous Waste (England &

Wales) Regulations 2005.

Contaminated packaging Treat empty containers in the same way as the product or if possible wash out thoroughly and

recycle. Incineration is recommended.

14. TRANSPORT INFORMATION

United Nations number UN 2468

Packaging group II

IMDG code 5.1/2468/II

RID / ADR 5.1, II

ICAO / IATA 5.1/2468/II

Marine pollutant The product should be marked as a marine pollutant.

Proper shipping name TRICHLOROISOCYANURIC ACID, DRY

Emergency action code 2WE

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15. REGULATORY INFORMATION

Classification & labelling The product is classified in accordance with the Chemicals (Hazard Information and Packaging for

005

Supply) Regulations [CHIP 3.1] EC Label: 201-782-8







OXIDISING HARMFUL

DANGEROUS FOR THE ENVIRONMENT

Risk phrases	R8 R22 R31 R36/37 R50/53	CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE HARMFUL IF SWALLOWED. CONTACT WITH ACIDS LIBERATES TOXIC GAS IRRITATING TO EYES AND RESPIRATORY SYSTEM. VERY TOXIC TO AQUATIC ORGANISMS; MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
Safety phrases	S2 S8 S26 S41 S60	KEEP OUT OF THE REACH OF CHILDREN. KEEP CONTAINER DRY IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE. IN CASE OF FIRE AND/OR EXPLOSION DO NOT BREATHE FUMES. THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF AS HAZARDOUS WASTE.
	S61	AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET.

16. OTHER INFORMATION

Further information

Sources of data The Approved Supply List, EH40/2005 and other suppliers' safety data sheets

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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 PLASTICA'S limited knowledge and belief, accurate, and reliable as of the date of authorisation of this safety data sheet. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to be satisfied as to the suitability and completeness of such information for the product as used.

Data sheet prepared by Rising HS&E Services.