

# SAFETY DATA SHEET



**Product Name:** TRICHLOR TABLETS (20 gm, 100 gm, 200 gm, 500 gm)

**SDS Reference** 005

**Version No.** 1

**Revision No.**

**Authorisation date** September 13<sup>th</sup>, 2000

## 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**



**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**

<b>Inhalation</b>	Remove casualty to fresh air and provide warmth and rest. If necessary seek medical advice.
<b>Skin contact</b>	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.
<b>Eye contact</b>	Immediately wash out eye thoroughly with plenty of water until irritation subsides. If irritation persists, seek medical advice (e.g. an ophthalmologist)
<b>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water and if necessary seek medical advice
<b>Further information</b>	

**5. FIRE FIGHTING MEASURES**

<b>General hazard</b>	THE PRODUCT WILL BURN IN A FIRE
<b>Extinguishing media</b>	In case of fire, ONLY use copious amounts of water.
<b>Extinguishing media not to be used</b>	Small volumes of water, foam, dry chemical
<b>Special exposure hazards</b>	The thermal decomposition products released should be considered toxic if inhaled. Do not approach fire from a leeward direction.
<b>Protective equipment</b>	Wear self-contained breathing apparatus.
<b>Further information</b>	Contact with combustible material may cause fire Avoid run-off water entering the drains (e.g. use barriers)

**6. ACCIDENTAL RELEASE MEASURES**

<b>Methods for cleaning up</b>	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.
<b>Environmental considerations</b>	Do not allow the product to enter ground or waste water. If this occurs, inform the local water authority at once.
<b>Further information</b>	

**7. HANDLING & STORAGE**

<b>Advice on safe handling</b>	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!
<b>Storage conditions</b>	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.
<b>Further information</b>	Avoid contact with nitrogen containing compounds (e.g. ammonia, urea, amines).

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Exposure controls</b>	Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls
	LTEL (8 hour TWA):                      ppm            10    mg/m <sup>3</sup> (total inhalable dust,EH40/2002)
	LTEL (8 hour TWA):                      ppm            4    mg/m <sup>3</sup> (respirable dust, EH40/2002)
	LTEL (8 hour TWA):            0.5 ppm            1.5 mg/m <sup>3</sup> (chlorine, EH40/2002)
	STEL (15 min):                            1 ppm            2.9 mg/m <sup>3</sup> (chlorine, EH40/2002)
<b>Engineering controls</b>	Ensure adequate ventilation of working area (e.g. local exhaust ventilation).
<b>Personal protection</b>	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)
<b>Eye protection</b>	Safety goggles or face shield (i.e. EN 166 approved)
<b>Skin protection</b>	Natural rubber latex gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)
<b>Respiratory protection</b>	When dusty conditions are encountered, wear a NIOSH/OSHA full face respirator with chlorine cartridge and dust pre-filter.
<b>Other protection</b>	Protective overall

**9. PHYSICAL & CHEMICAL PROPERTIES**

<b>Physical form</b>	Tablets or crystalline solid		
<b>Colour</b>	White		
<b>Odour</b>	Chlorine-like		
<b>pH</b>	2.5-3.3 (1% aqueous solution 25 Celsius)		
<b>Boiling pt / range</b>	N/A	°C	
<b>Melting pt / range</b>	225-230	°C (decomposes)	
<b>Flash point</b>	Not flammable	°C	
<b>Auto flammability</b>		°C	
<b>Density</b>			
<b>Explosive limits</b>	Lower:	% (v/v)	Higher:            % (v/v)
<b>Water solubility</b>	At. 1.0 g/100g water @ 25°C		
<b>Additional information</b>			

**10. STABILITY & REACTIVITY**

<b>Stability</b>	Danger of explosion if heated.
<b>Thermal decomposition</b>	225°C. Exothermic decomposition is self-sustaining with evolution of toxic gases.
<b>Conditions to avoid</b>	Heat, small quantities of water, contact with combustible materials.
<b>Material to avoid</b>	The product is incompatible with oxidisable substances, acids and nitrogen containing chemicals.
<b>Hazardous reactions</b>	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.
<b>Hazardous decomposition products</b>	Chlorine and traces of phosgene above 200°C.

**11. TOXICOLOGICAL INFORMATION**

<b>Acute toxicity</b>	LD <sub>50</sub> rat (oral)	1,000 mg/kg	Slightly toxic
<b>Dermal compatibility</b>	Moderate irritant causing erythema and oedema (rabbit)		
<b>Mucous membrane compatibility</b>	Severely irritant (rabbit eye)		

**12. ECOLOGICAL INFORMATION**

<b>Acute toxicity</b>	LC <sub>50</sub>	Fish	mg / l	No data available
<b>Degradability</b>	No data available			
<b>Further information</b>	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**

<b>Advice on disposal</b>	In accordance with national and local authority regulations, e.g. special waste (e.g. Special Waste Regulations, 1996) or incineration, after consultation with the operator.
<b>Contaminated packaging</b>	Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle. Incineration is recommended.

**14. TRANSPORT INFORMATION**

<b>United Nations number</b>	UN 2468
<b>Packaging group</b>	II
<b>IMDG code</b>	5.1/2468/II
<b>RID / ADR</b>	5.1, II
<b>ICAO / IATA</b>	5.1/2468/II
<b>Marine pollutant</b>	The product should not be marked as a marine pollutant.
<b>Proper shipping name</b>	TRICHLOROISOCYANURIC ACID, DRY
<b>Emergency action code</b>	2WE

**15. REGULATORY INFORMATION****Classification & labelling**

The product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations [CHIP 2002] EC Label: 201-782-8

**OXIDISING****HARMFUL****DANGEROUS  
FOR THE  
ENVIRONMENT****Risk phrases**

R8	CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE
R22	HARMFUL IF SWALLOWED.
R31	CONTACT WITH ACIDS LIBERATES TOXIC GAS
R36/37	IRRITATING TO EYES AND RESPIRATORY SYSTEM.
R50/53	VERY TOXIC TO AQUATIC ORGANISMS; MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

**Safety phrases**

S2	KEEP OUT OF THE 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 AND/OR EXPLOSION DO NOT BREATHE FUMES.
S60	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, EH40/2002 and other suppliers' safety data sheets

**Date of issue**

12-09-2003

**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.