

TENNANTS DISTRIBUTION LIMITED

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PRODUCT DATA SHEET

(This booklet incorporates the Specification and M.S.D.S.)

PRODUCT		CHLORINE STABILISER CYANURIC ACID	
CAS NO.	108-80-5		
TARIFF NO.			
U.N NO.			
EINECS NO.	203-618-0		
IMCO CLASS			
HAZARDS	IRRITANT		
SPECIFICATION REFERENCE	CHST/1	DATE	APR 01
REFERENCE NO.	CHST/1	DATE	APR 01
PREVIOUS EDITION.		DATE	

PRODUCT SPECIFICATION

Product Name Chlorine Stabiliser
 Alternative Name Cyanuric Acid
 Product Grade

TYPICAL PROPERTIES

Appearance	White granules or powder
Melting Point	Sublimes at 320-330°C
Boiling Point	Not applicable
Decomposition Temperature	Not applicable
Specific Gravity	2.5
Bulk Density	0.79 - 0.85 g (g/cc)
pH	3.8 - 4.0
Vapour Pressure @ 25°C	Not applicable
Solubility In Water	0.27% @ 25°C
Volatiles, percent by volume	Not applicable
Evaporation Rate	Not applicable
Vapour Density	Not applicable
Molecular Weight	129.08
Odour	None
Co-efficient Of Oil/Water Distribution	Not applicable

NOTES

Exclusion of Liability

Information contained in this publication is accurate to the best of the knowledge and belief of Tennants.

Any information or advice obtained from Tennants otherwise than by means of this publication and whether relating to Tennants materials or other materials, is also given in good faith. However, it remains at all times the responsibility of the customer to ensure that Tennants materials are suitable for the particular purpose intended.

Tennants accepts no liability whatsoever (except as otherwise provided by law) arising out of the use of information supplied, the application, adaptation or processing of the products described herein, the use of other materials in lieu of Tennants materials or the use of Tennants materials in conjunction with such other materials.

Health and Safety

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on the handling precautions and emergency procedures. This must be consulted fully before handling, storage and use.

SAFETY DATA SHEET	
1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	
Product:	Chlorine Stabiliser
COMPANY:	TENNANTS DISTRIBUTION LIMITED
	Hazelbottom Road Botany Way
	Cheetham Purfleet
	Manchester Essex
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2. COMPOSITION/INFORMATION ON INGREDIENTS	
Composition	98-100% conc. Cyanuric Acid
CAS No.	108-80-5
EINECS No.	203-618-0
Symbol	Xi
Risk Phrases	R36/37
3. HAZARDS IDENTIFICATION	
Main Hazards	Skin and eye irritant
4. FIRST AID MEASURES	
First Aid - Eyes	Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention at once
First Aid - Skin	Immediately flush with water for 15 minutes. Wash the contaminated skin with soap and water. If irritation develops, seek medical attention. If clothing comes into contact with the product, it should be removed immediately and it should be laundered before re-use
First Aid - Ingestion	Immediately drink water to dilute. Seek medical attention
First Aid - Inhalation	If patient experiences nausea, headache or dizziness, patient should stop work immediately and move to fresh air until these symptoms disappear. Use supported respiration if needed. Seek medical attention immediately
5. FIRE FIGHTING MEASURES	
Extinguishing Media	Use water to cool containers exposed to fire. Use extinguishing agent suitable for surrounding material
6. ACCIDENTAL RELEASE MEASURES	
Air Release	Not applicable
Water Release	This material is heavier than and slightly soluble in water
Land Spill	Keep spill materials dry and free of all foreign matter. Place in a clean, dry container
Personal Protection For Emergency	No extra protection required beyond that listed in Section 8. In cases of fire, use normal fire fighting equipment
7. HANDLING AND STORAGE	
Handling	Do not take internally, avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water
Storage	Store in a cool, dry area Do not store at temperatures above 60°C
8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Respiratory Protection	Respiratory protection not normally needed. If significant dusting occurs, wear a dust respirator
Ventilation	Use local exhaust ventilation to minimise dust levels
Skin/Eye Protection	Wear neoprene gloves and apron, chemical goggles and an impermeable suit (if needed)
9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	White granules or powder
Melting Point	Sublimes at 320-330°C
Boiling Point	Not applicable
Decomposition Temperature	Not applicable
Specific Gravity	2.5

Bulk Density	0.79 - 0.85 g (g/cc)
pH	3.8 - 4.0
Vapour Pressure @ 25°C	Not applicable
Solubility In Water	0.27% @ 25°C
Volatiles, percent by volume	Not applicable
Evaporation Rate	Not applicable
Vapour Density	Not applicable
Molecular Weight	129.08
Odour	None
Co-efficient Of Oil/Water Distribution	Not applicable
10. STABILITY AND REACTIVITY	
	Conditions under which this product may become unstable
Temperatures above	330°C
Hazardous Polymerisation	will not occur
Incompatible Materials	Oxidisers
Hazardous Decomposition	CO, CO ₂ , NO _x , Cyanuric Acid
11. TOXICOLOGICAL INFORMATION	
Health Warning	May cause irritation to the skin and eyes on contact
Eye	Exposure may cause irritation consisting of reversible redness of the conjunctiva
Skin	Skin contact may result in slight irritation with transient redness. Any irritation would be reversible within 24 hours
Inhalation/Ingestion	No significant effects to health would be expected from inhalation or ingestion
Medical Conditions Aggravated By	None known
Exposure	
Chemical Interactions Which Enhance Toxicity	None known
Animal Toxicity	
Acute Toxicity	Inhalation LC50 - no data Dermal LD50 >2g/kg (rabbit) Oral LD50 >5g/kg (rat)
Chronic Toxicity	Based on data from toxicological investigation, cyanuric acid does not result in direct target organ damage. Damage to the kidneys and bladder has been observed in rats given a saturated solution (5375 ppm) of cyanuric acid for their drinking water. These effects are believed to be secondary to the formation of kidney stones that result in mechanical injury to the bladder and kidney. Under normal use and manufacturing conditions, exposure to this product is not expected to pose any health hazards lacks the potential to bioaccumulate in the body
Reproductive Toxicity	Not known to be a reproductive toxin
Carcinogenicity	Not known to be a carcinogenic
Mutagenicity	Not known to be a mutagenic
12. ECOLOGICAL INFORMATION	
Environmental Hazard	Rainbow trout (96h) 1080 ppm Bluegill sunfish (96h) 1400 ppm Daphnia Magna (48h) >1000 mg/l Mallard Duck (8 day dietary exposure) >2150 ppm Bobwhite Quail (8 day dietary exposure) > 10,000 ppm
13. DISPOSAL CONSIDERATIONS	
Product Disposal	Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local and national laws and regulations regarding treatment, storage and disposal for hazardous and non-hazardous wastes
14. TRANSPORT INFORMATION	
Not regulated	

15. REGULATORY INFORMATION

Labelling Information

Health

Xi Irritant

R phrases

R36/37 Irritating to eyes and respiratory system

S phrases

S1/2 Keep locked up and out of reach of children

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention

16. OTHER INFORMATION