



MATERIAL SAFETY DATA SHEET

I - PRODUCT IDENTIFICATION

Product: Chlorine Stabilizer – Quick Dissolve

Chemical Family: Isocyanurate

Formula: $C_3H_3N_3O_3$

CAS Number: 108-80-5

Synonym(s): Cyanuric Acid Powder, Isocyanuric Acid, Cyanuric acid, Conditioner, Stabilizer, Cyanuric Acid

COMPANY IDENTIFICATION

AllChem Performance Products, LP

6010 NW First Place

Gainesville, FL 32607

Tel: 352-378-9696

24 HR EMERGENCY TELEPHONE NUMBER

INFOTRAC (Transportation): (800)535-5053

II – COMPOSITION, INFORMATION ON INGREDIENTS

Chemical or Common Name:	Exposure Limits	
	OSHA PEL	ACGIH TLV
Cyanuric acid 108-80-5	97-99%	
Ammelide 645-93-2	0-0.5%	
Ammeline 645-92-1	0-0.5%	
Water 7732-18-5	0-2.0%	

III – HAZARDS IDENTIFICATION

Primary Route(s) of Entry:

Ingestion: ()

Inhalation: ()

Skin Contact: ()

Eye Contact: ()

Primary Health Hazards (Acute and Chronic):

Carcinogenity Listings:

OSHA: ()

NTP: ()

IARC: ()

Signs & Symptoms of Exposure:

Ingestion: Ingestion may cause gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting, lethargy or diarrhea.

Inhalation: No significant adverse effects to health would be expected to occur from inhalation with normal use of this product. However, if dust is created and inhaled, inhalation may cause mild irritation to the throat, mucous membranes and upper respiratory tract.

Skin Contact: Skin contact may cause a mild irritation consisting of transient redness. This irritation effect would not be expected to result in permanent damage.

Eye Contact: Contact with eyes may cause slight irritation consisting of redness, swelling and mucous discharge to the conjunctiva. No corneal damage or visual impairment.

Medical Conditions Aggravated By Exposure:

IV – FIRST AID MEASURES

Emergency and First Aid Procedures:

Ingestion: If swallowed, wash mouth thoroughly with plenty of water and give water to drink. Get medical attention immediately.

Note: never give an unconscious person anything to drink.

Inhalation: In case of dust inhalation or breathing fumes released from heated material, remove person to fresh air. Keep person quiet and warm. Apply artificial respiration if necessary and get medical attention immediately.

Skin Contact: Remove contaminated clothing. Wash skin thoroughly with mild soap and plenty of water for at least 15 minutes. Wash clothing before re-use. Get medical attention immediately.

Eye Contact: Holding the eyelids apart, flush eyes promptly with copious flowing water for at least 20 minutes. Get medical attention immediately.



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Notes to physician: Irritant. No specific antidote. Treat symptomatically and supportively. In case of ingestion, induce vomiting in alert patient.

V – FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARD DATA

Flash Point: Not Applicable

Auto-ignition Temperature: Not Applicable

Flammable Limits: Not Applicable

LEL:

UEL:

Extinguishing Media: Use extinguishing media appropriate to surrounding fire conditions.

Special Fire-fighting Procedures: Cool containers with water spray. In closed stores, provide fire fighters with self-contained breathing apparatus in positive pressure mode.

Unusual Fire and Explosion Hazards: When heated to decomposition, may release poisonous and corrosive fumes of CO₂, CO, NO_x and cyanic acid.

VI – ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Spilled Or Released:

Sweep up, place in a suitable container and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

On Soil: Keep spill materials dry and free of all foreign matter. Containerize in a clean, dry container.

On Water: This material is heavier than water. This material is very slightly soluble in water.

In Air: Not Applicable

VII – HANDLING AND STORAGE

Precautions to Be Taken in 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 dry, cool area. Do not store at temperatures above 60°C/140°F. Product has an indefinite shelf-life limitation.

Other Precautions:

VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: When dusty conditions are encountered, wear a NIOSH/OSHA full-face respirator with chlorine cartridges for protection against chlorine gas and dust/mist pre-filter. A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Ventilation:

Local Exhaust: Use local exhaust as necessary, especially under dusty conditions.

Mechanical Exhaust:

Other Protective Clothing or Equipment: Neoprene gloves, chemical safety goggles, body covering clothes and boots.

Work/ Hygienic Practices: Safety shower and eye bath should be provided. Do not eat, drink or smoke until after-work showering and changing clothes.

IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: Not applicable

Vapor Pressure (mm Hg): Not applicable under standard conditions

Vapor Density (Air=1): Not applicable under standard conditions

Solubility in Water: 0.27 g/100ml at 25°C

Appearance and odor: White granules or powder, no odor.

Specific Gravity (H₂O=1): 2.5

Percent volatile by volume:

Melting Point: Sublimes at 320-330°C (608-626°F)

Evaporation Rate: Not applicable under standard conditions

Molecular Weight: 129.08



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Bulk density: 0.79-0.85 g/cc
pH: 3.8-4.0
Thermal decomposition: Not applicable

X – STABILITY AND REACTIVITY

Stability: () Unstable () Stable under normal conditions

Conditions to Avoid: Heating above 330°C (626°F)

Incompatibility: Oxidizing agents

Hazardous Decomposition or By-Products: Cyanic acid, nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: () May Occur () Will Not Occur

XI- TOXICOLOGICAL INFORMATION

Acute Toxicity:

 Rat oral LD50: >5000 mg/kg

 Rat dermal LD50: >2000 mg/kg

 Eye irritation (rabbit): Mild irritant

 Dermal Irritation (rabbit): Mild irritant

Target Organ Toxicity: May cause mild skin and eye irritation. Based on data from toxicological investigations, Cyanuric acid does not result in direct target damage. Damage to the kidneys and bladder has been observed in rats when these animals are provided a saturated solution (5375 ppm) of cyanuric acid for their drinking water. During excretion of high amounts by the kidneys, stones of cyanuric acid can form (calculi) resulting in mechanical damage, which is secondary to stone formation. There should be no risk to humans during manufacture of the product, its use as a swimming-pool disinfectant, or even by consumption of dilute solutions (1-10 ppm) of cyanuric acid. Cyanuric acid is excreted unchanged rapidly via the kidneys. It lacks the potential to bioaccumulate in the body.

Chronic toxicity: There are no known or reported effects from chronic exposure except for effects similar to those experienced from single exposure.

Reproductive and Development Toxicity: There is no known reported effects on reproductive function or fetal development. Monosodium cyanurate (the sodium salt of cyanuric acid) has been tested by oral gavage in pregnant rats and rabbits. No teratogenic effects were seen in the offspring of either species.

Carcinogenicity: Cyanuric acid is not known to be a carcinogen. Not classified by IARC, OSHA, or EPA. Not included in NTP 8th

Mutagenicity: Not known or reported to be mutagenic. Cyanuric acid was demonstrated to be non-mutagenic in the Ames assay, both with or without metabolic activation.

XII – ECOLOGICAL INFORMATION

Aquatic Toxicity: 96 hour LC50-Fish: >2,100 mg/l (Rainbow trout)

 >2,100 mg/l (bluegill sunfish)

 >2,100 mg/l (Fathead minnow)

 48 hour LC50, Daphnia Magna: 1,000 mg/l

Avian Toxicity: Mallard duck, dietary LC50: >10,000 ppm

 Bobwhite quail, dietary LC50: >10,000 ppm

ENVIRONMENTAL HAZARDS (PR Notice 93-10)

This product is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water board or Regional Office of the EPA.

XIII – DISPOSAL CONSIDERATIONS



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Waste Disposal Method: Observe all federal, state and local environmental regulations when disposing of this material.

XIV - TRANSPORTATION DATA

Please refer to applicable regulations or call company noted under Section I.

XV - REGULATORY INFORMATION

This chemical appears on the following lists:

(X) SARA TITLE III

Section 311/312 Categorization (40 CFR 370.2): this product is categorized as an immediate health hazard, and fire physical hazard.

Section 313 Information (40 CFR 372): This mixture or trade name product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372.

(X) TSCA – Reported in the EPA TSCA Inventory

Workplace Classification: This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

EEC: Reported in EINECS (No. 2036180)

Adverse Human health effects: irritant to eyes and respiratory system

NFPA Rating: Not established

HMIS Rating: Health = 1, Fire = 0, Reactivity = 0.

XVI - ADDITIONAL INFORMATION

This MSDS replaces the 01/18/2008 version. Any changes in information are as follows: Section II, XI.

ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION, STORAGE, USE AND DISPOSAL OF THIS CHEMICAL.

Due to the changing nature of regulatory requirements, the REGULATORY INFORMATION listed in Section XV of this document should NOT be considered all-inclusive or authoritative. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.

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