



MATERIAL SAFETY DATA SHEET

Product Name: Stabilizer
Product id: AQZCYA002 / AQZCYA004
Revision date: 11/09/2006
Revision: 2

1. Identification of the substance & the company

Chemical name Cyanuric acid

Synonym(s) Cyanuric Acid Powder, Cyanuric Acid Granular, Isocyanuric acid, Cyanuric acid

Chemical formula $C_3H_3N_3O_3$

Chemical family Isocyanurate

Molecular weight 129.08

Type of product and use Chlorine stabilizer for swimming pool use.

Supplier W.W. Adcock
P.O. Box 492
Huntingdon Valley, PA 19006
(215)947-3801

Emergency Transportation Chem Tel - 888-255-3924

2. Composition / information on ingredients

Components CAS	Weight %	ACGIH-TLV Data	OSHA (PEL) Data
Cyanuric acid 108-80-5	90-99	Not determined	Not determined
SULPHURIC ACID ... % 7664-93-9	0-1	0.2 mg/m ³ ,A2 (Designation refers to sulfuric acid contained in strong inorganic acid mists)	1 mg/m ³
Ammelide 645-93-2	0-0.5	Not determined	Not determined
Ammeline 645-92-1	0-0.5	Not determined	Not determined

3. Hazards identification

Emergency overview

*White granules or powder
Irritant to eyes and respiratory system.*

Potential Health Effects: - 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.



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- 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.
- 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.
- Ingestion	Ingestion may cause gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting, lethargy or diarrhea.
NFPA Ratings (Scale 0-4)	Not established
HMIS Ratings (Scale 0-4)	Health = 1, Fire = 0, Reactivity = 0.

4. First-aid measures

Eye contact	Holding the eyelids apart, flush eyes promptly with copious flowing water for at least 20 minutes. 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 if irritation occurs and persists.
Inhalation	In case of dust inhalation or breathing fumes released from heated material, remove person to fresh air. Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention immediately.
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. *****
Note to physician	Treat symptomatically and supportively.

5. Fire - fighting measures

Flash point	Not applicable
Flammable/Explosion limits	Not applicable
Auto-ignition temperature	Not applicable
Suitable extinguishing media	Use extinguishing media appropriate to surrounding fire conditions.



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Fire fighting procedure 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, NH₃, NO_x and cyanic acid.

6. Accidental release measures

Personal precautions See section "Exposure controls/personal protection".
Methods for cleaning up Sweep up, place in a suitable container and hold for waste disposal.
Ventilate area and wash spill site after material pickup is complete.

- **Soil** Keep spill materials dry and free of all foreign matter. Containerize in a clean, dry container.
- **Water** This material is heavier than water. This material is very slightly soluble in water.
- **In air** Not applicable

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

8. Exposure controls / personal protection

Ventilation requirements Use local exhaust as necessary, especially under dusty conditions.

Personal protective equipment:

- **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.
- **Hand protection** Neoprene gloves
- **Eye protection** Chemical safety goggles
- **Skin and body protection** Body covering clothes and boots

Hygiene measures Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.



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9. Physical and chemical properties

Appearance	White granules or powder
Odor	None
Melting point/range	Sublimes @ 320-330°C (608-626°F)
Boiling point/range	Not applicable
Vapor pressure	Not applicable under standard conditions
Vapor density	Not applicable under standard conditions
Evaporation rate (ether=1)	Not applicable under standard conditions
Solubility:	
- Solubility in water	0.27 g/100ml at 25°C
Specific gravity	2.5
pH	3.8-4.0
Decomposition temperature	Not applicable

10. Stability and reactivity

Stability	Stable under normal conditions
Materials to avoid	Oxidizing agents
Conditions to avoid	Heating above 330°C (626°F)
Hazardous decomposition products	Cyanic acid, nitrogen oxides, carbon monoxide, carbon dioxide.
Hazardous polymerization	Will not occur

11. Toxicological information

Acute toxicity:	
- Rat oral LD50	>5000 mg/kg
- Rabbit dermal LD50	>2000 mg/kg
- Eye irritation (rabbit)	Mild irritant
- Dermal irritation (rabbit)	Mild irritant
Target organ effects	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 kidney, 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



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Chronic toxicity	lacks the potential to bioaccumulation in the body. There are no known or reported effects from chronic exposure except for effects similar to those experienced from single exposure.
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.
Carcinogenicity	Cyanuric acid is not known to be a carcinogen. Not classified by IARC, OSHA, or EPA. Not included in NTP 11th Report on Carcinogens. Sulfuric acid is not known or reported to be carcinogenic by any reference source. IARC evaluated several epidemiology studies where individuals in a variety of industries had been exposed to a mixture of strong inorganic acid mists is carcinogenic to humans. Because cancer has not been observed in animals when they are exposed only to sulfuric acid mist, exposure to sulfuric acid by itself was not determined to be carcinogenic to humans.
Reproductive toxicity	There are no known or 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. Sulfuric acid aerosol (95.7% purity) was tested in pregnant mice and rabbits exposed to the concentrations of 0, 5 and 20 mg/cubic meter by inhalation on gestational days 6-15 and 6-18, respectively. No reproductive or developmental effects were seen in either species at any of the exposure concentrations utilized.

12. Ecological information

Aquatic toxicity :

- 96 Hour-LC50, Fish	>2,100 mg/l (Bluegill sunfish) >2,100 mg/l (Fathead minnow) >2,100 mg/l (Rainbow trout)
- 48 Hour-LC50, Daphnia magna	1,000 mg/l

Avian toxicity:

- Dietary LC50, Mallard duck	>10,000 ppm
- Dietary LC50, Bobwhite quail	>10,000 ppm

13. Disposal considerations



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

14. Transportation information

DOT	Not regulated
IMO	Not regulated
ICAO/IATA	Not regulated

15. Regulatory information

USA	Reported in the EPA TSCA Inventory
Sara 313	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.(See section 2 for Composition) Chemicals Listed are: Sulfuric acid
Sara (311, 312) hazard class	This product is categorized as an immediate health hazard, and fire and reactivity physical hazard
- Workplace Classification	This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).
EU	All the ingredients in this preparation are reported in EINECS

16. Other information

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End of safety data sheet