

MSDS Document

Product Instant Pool Water Conditioner

1. Chemical Product and Company Identification

Trade Name of this Product Instant Pool Water Conditioner

Synonyms: Sodium isocyanurate monhydrate liquid, Liquid Stabilizer, Liquid Conditioner, 1,3,5-triazine-2,4,6-(1H,3H,5H)-trione, sodium salt, Natural Chemistry Item # 07401

MSDS ID NC-MS001

Manufacturer

Natural Chemistry, Inc.
76 Progress Drive
Stamford, CT 06902-3600

Contact Name

Tom Berry

Phone Number

(800) 753-1233

Emergency Phone

CHEMTREC (800) 424-9300

Revision Date 03/18/2008



Health:	1
Fire:	0
Reactivity:	0
Specific	

2. Composition and Information on Ingredients

Ingredient	CAS Number	Weight %	ACGIH TLV	PEL	STEL
Monosodium cyanurate monohydrate	2624-17-1	35-42%	Not Established	Not Established	Not Established
Cyanuric Acid	108-80-5	1-2 %			
Water	7732-18-5	Balance %	0		

3. Hazard Identification

EYES:

May cause mild irritation.

SKIN:

No effects known.

INHALATION:

No effects known.

INGESTION:

No effects known.

EXPOSURE LIMITS:

10 mg/m³ TWA (Weel) (total particulate)

5 mg/m³ TWA (weel) (respirable particulate)

AIHA recommended

*For any exposure, if adverse symptoms occur, seek medical attention.

4. First Aid Information

EYES

Hold the eyelids apart and flush the eye gently with a large amount of water for at least 15 minutes. Get immediate medical attention.

SKIN:

Remove contaminated clothing. Wash skin with soap and water. If irritation occurs, get medical attention.

INHALATION:

If adverse symptoms occur, remove from contaminated area. If symptoms of overexposure occur, get medical attention.

INGESTION:

No effects expected for small amounts. If large amounts are ingested, get medical attention.

5. Fire Fighting Measures

Flash Point Not available

FP Method Not available

FIRE AND EXPLOSION HAZARDS:

Negligible fire hazard.

EXTINGUISHING MEDIA:

Use extinguishing agents appropriate for surrounding fire.

FIRE FIGHTING:

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Wear NIOSH-approved positive-pressure self-contained breathing apparatus.

SENSITIVITY TO MECHANICAL IMPACT:

Not sensitive.

SENSITIVITY TO STATIC DISCHARGE:

Not sensitive.

FLASH POINT

None

HAZARDOUS COMBUSTION PRODUCTS:

None

6. Accidental Release Measures

OCCUPATIONAL RELEASE:

Scoop up or mop up spilled liquid and place in an appropriate clean container for disposal. Keep out of water supplies, storm drains and sewers.

7. Handling and Storage

STORAGE:

Store and handle in accordance with all current regulations and standards. Store in a cool, dry place. Store in a well-ventilated area. Keep separated from incompatible substances.

HANDLING:

Wash thoroughly after handling. Use only with adequate ventilation.

8. Exposure Controls and Personal Protection

CYANURIC ACID:

10 mg/m³ AIHA recommended TWA (WEEL) (total particulate)

5 mg/m³ AIHA recommended TWA (WEEL) (respirable particulate)

EXPOSURE LIMITS:

EYE PROTECTION:

Wear chemical resistant safety goggles if eye contact is likely. An emergency eye wash fountain may be provided.

CLOTHING:

Wear appropriate clothing. Contaminated clothing should be removed and laundered before reuse.

GLOVES:

Wear suitable gloves.

PROTECTIVE MATERIAL TYPES:

Butyl rubber, natural rubber, neoprene, nitrile, polyvinyl chloride (PVC)

RESPIRATOR:

No respirator is required under normal conditions of use.

9. Physical and Chemical Properties

Physical State

Liquid Slurry

Specific Gravity	1.25
Density lbs/Gal.	10.4
Color/Appearance	White, thick
Odor	None
pH	8.0-8.4
Boiling/Cond. Point	Not available
Melting/Freezing Point	Not available
Solubility	2% @ 25°C
Evaporation Rate	Not available
VOC %	Not available
Percent Volatile	Not available
Molecular Formula	Na-H2-C3-N3-O3.H2O
Viscosity	Not available
Molecular Weight	169.08
Vapor Density	Not available
Vapor Pressure	Not available

Physical and chemical properties listed above are general and approximate and are not intended as product specifications.

10. Stability and Reactivity

STABILITY:

Stable at normal temperatures and pressure.

CONDITIONS TO AVOID:

Avoid contact with incompatible materials.

INCOMPATIBLE MATERIALS:

Acids, oxidizing materials

HAZARDOUS DECOMPOSITION:

Thermal decomposition products or combustion: cyanic acid, ammonia, oxides of carbon, oxides of nitrogen.

POLYMERIZATION:

Hazardous polymerization will not occur.

11. Toxicological Information

MONOSODIUM CYANURATE MONOHYDRATE, DRY:

TOXICITY DATA:

Sodium Cyanurate: 2144 mg/kg intravenous-cat LD50. Sodium cyanurate has been shown to cause no injury to rabbit eyes when 0.1 mL of aqueous suspensions containing 0.8% to 8% were applied daily 5 days/wk for 3 months. Renal effects and deaths were observed in female and male rats fed high doses (8%) monosodium cyanurate for 20 wk in diet. Histological changes in kidney related to diuretic effect of cyanuric acid were noted. No effects were noted at 0.8%. Dogs fed high doses (8%) monosodium cyanurate for 2 years showed kidney fibrosis and death. Dogs fed 0.8% monosodium cyanurate in diet showed no changes after 6 months. Monosodium cyanurate was evaluated for gene mutation and was negative at all dose levels tested. Cyanuric acid: >10 gm/kg oral-rat LD50; 7.7 gm/kg oral-rat LD50; 20 mg/24 hour(s) eyes-rabbit slight irritation; 500 mg/24 hour(s) eyes-rabbit marked irritation; non-irritating to rabbit skin. This material is believed to be non-toxic by inhalation,

dermal exposure and ingestion. This material may cause irritation of the eyes. Long-term feeding studies in rats and dogs did not produce any adverse effects. Based on animal studies, cyanuric acid did not affect reproduction success in rats. No teratogenic effects were noted in studies with rats or rabbits.

12. Ecological Information

ECOTOXICITY DATA:

FISH TOXICITY DATA:

This material is believed to be non-toxic to aquatic life.

FATE AND TRANSPORT:

BIODEGRADATION:

Cyanuric acid biodegrades readily under a wide variety of natural conditions, and particularly well in systems of either low or zero dissolved-oxygen levels.

PERSISTENCE:

This material is believed not to persist in the environment. Cyanuric acid has an estimated Henry's Law Constant of 1.36×10^{-18} atm cu m/mol.

BIOCONCENTRATION:

Aquatic bioconcentration and adsorption are not expected to be important fate processes for cyanuric acid. The BCF for cyanuric acid is <0.5 at 1 mg/L for a 6-week duration. Atmosphere half-life is estimated to be 102 days. Cyanuric acid will have a high soil mobility based on KOC values ranging from 66 to 124.

OTHER ECOLOGICAL INFORMATION:

Cyanuric acid is toxic to certain plants including barley and radishes.

13. Disposal Considerations

Reuse or reprocess if possible. Dispose of in accordance with all applicable Federal, state and local regulations.

14. Transportation Information

US DOT:

Not regulated.

CANADIAN TRANSPORTATION OF DANGEROUS GOODS:

Not regulated.

15. Regulatory Information

U.S. REGULATIONS:

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):

Not regulated.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):

Not regulated.

SARA TITLE III SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):

ACUTE: No

CHRONIC: No

FIRE: No

REACTIVE: No

SUDDEN RELEASE: No

SARA TITLE III SECTION 313 (40 CFR 372.65):

Not regulated.

OSHA PROCESS SAFETY (29 CFR 1910.119):

Not regulated.

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

Not regulated.

NEW JERSEY WORKER AND COMMUNITY RIGHT TO KNOW:

REPORTING REQUIREMENT:

Sodium cyanurate 2624-17-1 35-37%

Cyanuric acid 108-80-5 0-2%

Water 7732-18-5 61-65%

RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST:

Not regulated.

SPECIAL HEALTH HAZARD SUBSTANCE LIST:

Not regulated.

PENNSYLVANIA RIGHT TO KNOW:

REPORTING REQUIREMENT:

Sodium cyanurate 2624-17-1 35-37%

HAZARDOUS SUBSTANCE LIST:

Not regulated.

ENVIRONMENTAL HAZARDOUS SUBSTANCE LIST:

Not regulated.

CANADIAN REGULATIONS:

CONTROLLED PRODUCTS REGULATIONS (CPR):

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS CLASSIFICATION:

Not a Controlled Product under Canada's Workplace Hazardous Material Information

System.

TSCA 12(b) EXPORT NOTIFICATION:

Not listed.

CANADA DOMESTIC SUBSTANCES LIST (DSL):

This product and/or all of its components are listed on the Canadian DSL.

16. Other Information

Other Information

The information presented herein, while not guaranteed, was prepared by competent technical personnel and is based upon information Natural Chemistry, Inc. believes to be true, accurate and reliable and is supplied for informational purposes only. Natural Chemistry, Inc. disclaims any liability for damage which results from the use of the above information and nothing contained therein shall constitute a guarantee, warranty (including fitness for a particular purpose) or representation by Natural Chemistry, Inc. with respect to the accuracy or completeness of the data, the product described or their use for any specific purpose even if that purpose is known to Natural Chemistry, Inc.. Factors pertaining to certain conditions of storage, handling, or use of this product may involve other or additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the customer. The final determination of the suitability of the information and the manner of use of the information or product is the sole responsibility of the user.

Physical chemical properties listed in Section 9 are general and approximate and are not intended as product specifications.

Revision Summary

Revised 07/27/05 to add Chemtrec (800) 424-9300 in Section 1.