

# 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

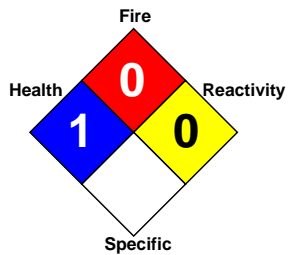
#### Phone Number

(800) 753-1233

#### Emergency Phone

CHEMTREC (800) 424-9300

**Revision Date** 7/27/2005



|             |   |
|-------------|---|
| 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/m<sup>3</sup> TWA (Weel) (total particulate)  
5 mg/m<sup>3</sup> 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

|                    |               |
|--------------------|---------------|
| <b>Flash Point</b> | Not available |
| <b>FP Method</b>   | 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/m<sup>3</sup> AIHA recommended TWA (WEEL) (total particulate)

5 mg/m<sup>3</sup> 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

|                               |                    |
|-------------------------------|--------------------|
| <b>Specific Gravity</b>       | 1.25               |
| <b>Density lbs/Gal.</b>       | 10.4               |
| <b>Color/Appearance</b>       | White, thick       |
| <b>Odor</b>                   | None               |
| <b>pH</b>                     | 8.0-8.4            |
| <b>Boiling/Cond. Point</b>    | Not available      |
| <b>Melting/Freezing Point</b> | Not available      |
| <b>Solubility</b>             | 2% @ 25°C          |
| <b>Evaporation Rate</b>       | Not available      |
| <b>VOC %</b>                  | Not available      |
| <b>Percent Volatile</b>       | Not available      |
| <b>Molecular Formula</b>      | Na-H2-C3-N3-O3.H2O |
| <b>Viscosity</b>              | Not available      |
| <b>Molecular Weight</b>       | 169.08             |
| <b>Vapor Density</b>          | Not available      |
| <b>Vapor Pressure</b>         | 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  $1.36 \times 10^{-18}$  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

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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.