

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

*Product Name:* Cyanuric Acid

*MSDS Number:* M00041

*Chemical Name:* Not applicable

*CAS No.:* Not applicable

*Chemical Formula:* Not applicable

*Chemical Family:* Not applicable

*Hazard* May cause allergic reaction. May cause irritation.

*Date of MSDS Preparation:*

*Day:* 23

*Month:* 09

*Year:* 2004

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

### **Potassium Phosphate, Monobasic**

*CASNo.:* 7779M TSCA CAS Number..

*7778-77-0 Percent Range:* 45.0 - 55.0

*Percent Range Units:* weight / weight *LD50:*

Oral rat LD50 = 7100 mg/kg *LC50:* None

reported *TL V.:* Not established *PEL:* Not

established *Hazard.* May cause irritation.

**Other component** *CAS No.:* Not applicable TSCA CAS Number.. Not applicable *Percent Range:* < 1.0 *Percent Range Units:* weight / weight *LD50:* Not applicable *LC50:* Not applicable *TLV.:* Not established *PEL:* Not established *Hazard.:* Any ingredient(s) of this product listed as "Other component(s)" is not considered a health hazard to the user of this product.

### **Potassium Phosphate, Dibasic**

*CASNo.:* 7758144

*TSCA CAS Number:* 7758-11-4

*Percent Range:* 45.0 - 55.0

*Percent Range Units:* weight/ weight

*LD50:* None reported

*LC50:* None reported

*TLV.* Not established

*PEL:* Not established *Hazard.:* No effects anticipated.

*Sodium Sulfite* *CAS No.:* 7757837 TSCA CAS Number..

*7757-83-7 Percent Range:* 1.0 - 5.0 *Percent Range Units:*

weight / weight *LD50:* Oral mouse LD50 = 820 mg/kg *LC50:*

None reported *TL V.:* Not established *PEL:* Not established

*Hazard.:* May cause allergic reaction. May cause irritation.

## 3. HAZARDS IDENTIFICATION

*Emergency Overview.*

*Appearance:* White powder

*Odor:* Odorless

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION

MAY CAUSE ALLERGIC RESPIRATORY REACTION IF SWALLOWED OR INHALED

### **HMIS**

*Health:* 2

*Flammability:* 0

*Reactivity:* 0

*Protective Equipment. X - See protective equipment, Section 8.*

### **NFPA:**

*Health:* 2

*Flammability.:* 0

*Reactivity:* 0

*Symbol.* Not applicable

*Potential Health Effects:*

*Eye Contact.* May cause irritation

*Skin Contact.:* May cause irritation

*Skin Absorption:* None reported

*Target Organs:* None reported *Ingestion:* Very large doses may cause: gastrointestinal disturbances nausea vomiting paresthesias (tingling or burning sensation) of the hands and feet cardiac depression kidney damage central nervous system depression allergic respiratory reaction

*Target Organs:* Central nervous system Heart Kidneys

*Inhalation:* May cause: respiratory tract irritation allergic respiratory reaction

*Target Organs:* None reported *Medical Conditions Aggravated:* Sulfites are strong sensitizers. Inhalation and ingestion may cause allergic respiratory reactions in asthmatics. Persons with respiratory conditions should take special care when working with products that contain sulfites. *Chronic Effects:* None reported *Cancer / Reproductive Toxicity Information:*

This product does NOT contain any OSHA listed carcinogens.

An ingredient of this mixture is: IARC Group 3: Non-classifiable

Sulfites

This product does NOT contain any NTP listed chemicals.

*Additional Cancer / Reproductive Toxicity Information:* Contains: an experimental mutagen.

*Toxicologically Synergistic Products:* None reported

#### 4. FIRST AID

*Eye Contact.* Immediately flush eyes with water for 15 minutes. Call physician. *Skin Contact (First Aid):* Wash skin with soap and plenty of water. Call physician if irritation develops. *Ingestion (First Aid):* Give large quantities of water. Call physician immediately. *Inhalation:* Remove to fresh air. Give artificial respiration if necessary. Call physician.

#### 5. FIRE FIGHTING MEASURES

*Flammable Properties:* During a fire, corrosive and toxic gases may be generated by thermal decomposition. *Flash Point:* Not applicable *Method:* Not applicable *Flammability Limits: Lower Explosion Limits:* Not applicable *Upper Explosion Limits:* Not applicable *Autoignition Temperature:* Not applicable *Hazardous Combustion Products:* Toxic fumes of phosphorus oxides sulfur oxides. *Fire / Explosion Hazards:* None reported *Static Discharge:* None reported. *Mechanical Impact:* None reported *Extinguishing Media:* Use media appropriate to surrounding fire conditions *Fire Fighting Instruction:* As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

*Spill Response Notice.*

Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. *Containment Technique:* Stop spilled material from being released to the environment. *Clean-up Technique:* Scoop up spilled material into a large beaker and dissolve with water. Flush the spilled material to the drain with a large excess of water. Decontaminate the area of the spill with a soap solution. *Evacuation Procedure:* Evacuate as needed to perform spill clean-up. If conditions warrant, increase the size of the evacuation. *Special Instructions (for accidental release):* Not applicable 304 EHS RQ (40 CFR 355): Not applicable D. 0. T. *Emergency Response Guide Number:* None

#### 7. HANDLING / STORAGE

*Handling:* Avoid contact with eyes skin Do not breathe dust. Wash thoroughly after handling. Maintain general industrial hygiene practices when using this product. *Storage:* Protect from: heat moisture Keep away from: oxidizers acids *Flammability Class:* Not applicable

#### 8. EXPOSURE CONTROLS 1 PROTECTIVE EQUIPMENT

*Engineering Controls:* Have an eyewash station nearby. Maintain general industrial hygiene practices when using this product.

*Personal Protective Equipment. Eye Protection:* safety glasses with top and side shields *Skin Protection:* disposable latex gloves lab coat *Inhalation Protection:* adequate ventilation *Precautionary Measures:* Avoid contact with: eyes skin Do not breathe: dust Wash thoroughly after handling. Protect from: heat moisture Keep away from: acids/acid fumes oxidizers TL V.. Not established PEL: Not established

#### 9. PHYSICAL / CHEMICAL PROPERTIES

*Appearance:* White powder

*Physical State:* Solid *Molecular Weight:* Not applicable  
*Odor:* Odorless pH.. 5% soln. = 6.7 *Vapor Pressure:* Not applicable  
*Vapor Density (air = 1):* Not applicable  
*Boiling Point:* Not applicable *Melting Point:* Not determined  
*Specific Gravity (water = 1):* 2.13  
*Evaporation Rate (water = 1):* Not applicable *Volatile Organic Compounds Content:* Not applicable  
*Partition Coefficient (n-octanol / Water):* Not applicable  
*Solubility:*  
*Water:* Soluble  
*Acid:* Soluble  
*Other:* Not determined  
*Metal:* Not determined  
*Corrosivity:*  
*Steel:* Not determined  
*Aluminium:* Not determined

## 10. STABILITY 1 REACTIVITY

*Chemical Stability:* Stable when stored under proper conditions. *Conditions to Avoid:* Heat Excess moisture *Reactivity / Incompatibility:* Incompatible with: acids oxidizers *Hazardous Decomposition:* Heating to decomposition releases toxic and/or corrosive fumes of. sulfur oxides phosphorus oxides *Hazardous Polymerization:* Will not occur.

## 11. TOXICOLOGICAL INFORMATION

*Product Toxicological Data:* LD50: None reported LC50: None reported *dermal Toxicity Data:* Potassium Phosphate, Monobasic: Skin rabbit LD50 > 7940 mg/kg *Skin and Eye Irritation Data:* None reported *Mutation Data:* Sodium Sulfite: Cytogenetic analysis, sperm morphology - mouse cells - 25 mg/l; mutation - human lymphocytes - 100 umol/l  
*Reproductive Effects Data:* None reported *Ingredient Toxicological Data:* Potassium Phosphate, Monobasic: Oral rat LD50 = 7 100 mg/kg; Sodium Sulfite: Oral mouse LD50 = 820 mg/kg

## 12. ECOLOGICAL INFORMATION

*Product Ecological Information:* -  
No ecological data available for this product.  
*Ingredient Ecological Information:* Sodium Sulfite: Biological Oxygen Demand (BOD): 0.12 lb/1b; 2600 ppm / 24,48 & 96 hour / mosquito fish / TLm / freshwater

## 13. DISPOSAL CONSIDERATIONS

*EPA Waste ID Number:* None *Special Instructions (Disposal):* Dilute material with excess water making a weaker than 5% solution. Open cold water tap completely, slowly pour the material to the drain. Allow cold water to run for 5 minutes to completely flush the system. *Empty Containers:* Rinse three times with an appropriate solvent. Dispose of empty container as normal trash. *NOTICE (Disposal):* These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information.

## 14. TRANSPORT INFORMATION

*D. 0. E:*  
*D. 0. T. Proper Shipping Name:* Not Currently Regulated  
*DOT Hazard Class:* NA  
*DOT Subsidiary Risk:* NA  
*DOT ID Number:* NA  
*DOT Packing Group:* NA  
*L C.A. 0:*  
*L C.A.0. Proper Shipping Name:* Not Currently Regulated

**ICAO Hazard Class:** NA  
**ICAO Subsidiary Risk:** NA  
**ICAO ID Number:** NA  
**ICAO Packing Group:** NA

*I.M.O.:*  
*I.M. 0. Proper Shipping Name:* Not Currently Regulated  
*I.M.O. Hazard Class:* NA  
*I.M.O. Subsidiary Risk:* NA  
*L .0. ID Number:* NA  
*I.M.O. Packing Group:* NA

**Additional Information:** This product maybe shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit Hazard Class: 9 UN Number 3316

## 15. REGULATORY INFORMATION

### US. Federal Regulations:

O.S.H.A.: this product meets the criteria for a hazardous substance as defined in the Hazard Communication Standard. (29 CFR 1910.1200)

E.P.A.: **S.A.R.A. Title III Section 3111312 Categorization (40 CFR 3 70):** Immediate (Acute) Health Hazard **S.A.R.A.**

**Title III Section 313 (40 CFR 3 72):** This product does NOT contain any chemical subject to the reporting requirements of Section 313 of Title 111 of SARA.

302 (EMS) TPQ (40 CFR 355): Not applicable 304

CERCLA RQ (40 CFR 302.4): Not applicable **304**

**EHS RQ (40 CFR 355):** Note applicable **Clean**

**Wager Act (40 CFR 116.4):** Not applicable RCRA:

Contains no RCRA regulated substances.

C.P.S. C.: Not applicable **State**

### Regulations:

**California Prop. 65:** No Prop. 65 listed chemicals are present in this product.

**Identification of Prop. 65 Ingredient(s):** None **Trade Secret Registry:** Not

applicable **National Inventories:**

**US. Inventory Status:** All ingredients in this product are listed on the TSCA 8(b) Inventory (40 CFR 7 10).

**TSCA CAS Number..** Not applicable

## 16. OTHER INFORMATION

**Intended Use:** Laboratory Reagent References: 29 CFR 1900 - 1910 (Code of Federal Regulations - Labor). Air Contaminants, Federal Register, Vol. 54, No. 12. Thursday, January 19, 1989. pp. 2332-2983. TLV's Threshold Limit Values and Biological Exposure Indices for 1992-1993. American Conference of Governmental Industrial Hygienists, 1992. In-house information. CCINFO RTECS. Canadian Centre for Occupational Health and Safety. Hamilton, Ontario Canada: 30 June 1993. Technical Judgment. IARC Monographs on the Evaluation of the Carcinogenic Risk to Humans. World Health Organization (Volumes 1 -42) Supplement 7. France: 1987.

**Revision Summary:** Updates in Section(s) 14,

### Legend:

NA - Not Applicable	w/w - weight/weight
ND - Not Determined	w/v - weight/volume
NV - Not Available	v/v - volume/volume

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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