

# Material Safety Data Sheet

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Cyanuric Acid

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Cyanuric acid

**Chemical Formula:** C<sub>3</sub>H<sub>3</sub>N<sub>3</sub>O<sub>3</sub>

**CAS Number:** 108-80-5

**Other Designations:** Isocyanuric acid, Tricarbimide, 1,3,5 – Triazine – 2,4,6 – Triol, Triazinetrol, Isocyanuric acid

**General Use:**

**Emergency Telephone:** 1-800-424-9300 (Chemtrec)

## Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	EINECS/ELINCS	% wt or % vol
Cyanuric acid	108-80-5	203-618-0	98

### Trace Impurities:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
Cyanuric acid	none estab.	none estab.	none estab.	none estab.	none estab.	none estab.	none estab.

## Section 3 - Hazards Identification

### ☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

**Appearance:** white. Hygroscopic. Harmful if swallowed, inhaled or absorbed through skin. Causes severe irritation. High concentrations are extremely destructive to tissues of the mucous membranes and upper respiratory tract, eyes and skin. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis.

### HMIS

H	1
F	0
R	0

PPE<sup>†</sup>

<sup>†</sup>Sec. 8

### Potential Health Effects

**Primary Entry Routes:** Inhalation, ingestion and skin contact.

**Target Organs:** none

#### Acute Effects

**Inhalation:** Can cause respiratory irritation.

**Eye:** Irritation.

**Skin:** Irritation.

**Ingestion:** Can cause irritation of the digestive system.

**Carcinogenicity:** IARC, NTP, and OSHA do not list Cyanuric acid as a carcinogen.

**Medical Conditions Aggravated by Long-Term Exposure:**

**Chronic Effects:**

## Section 4 - First Aid Measures

**Inhalation:** Remove from exposure to fresh air immediately.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.

**Skin Contact:** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Do NOT induce vomiting. Allow the victim to rinse his mouth and then to drink 2-4 cupfuls of water, and seek medical advice.

*After first aid, get appropriate in-plant, paramedic, or community medical support.*

**Note to Physicians:** Treat symptomatically and supportively.

# Cyanuric Acid

## Section 5 - Fire-Fighting Measures

**Flash Point:** Not available.

**NFPA\*:** Not listed

**Burning Rate:**

**Autoignition Temperature:** Not available.

**LEL:** Not available.

**UEL:** Not available.

**Flammability Classification:**

**Extinguishing Media:** In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

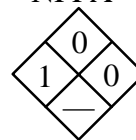
**Unusual Fire or Explosion Hazards:**

**Hazardous Combustion Products:**

**Fire-Fighting Instructions:** Do not release runoff from fire control methods to sewers or waterways.

**Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

NFPA\*



## Section 6 - Accidental Release Measures

**Spill /Leak Procedures:** Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal.

**Large Spills**

**Containment:** For large spills, dike far ahead of spill for later disposal. Do not release into sewers or waterways.

**Cleanup:**

**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

## Section 7 - Handling and Storage

**Handling Precautions:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

**Storage Requirements:** Store in a cool, dry place. Keep container closed when not in use.

## Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Administrative Controls:**

**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

*Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

**Protective Clothing/Equipment:** Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

## Cyanuric Acid

### Section 9 - Physical and Chemical Properties

<b>Physical State:</b> solid	<b>Water Solubility:</b> 0.3 G/100ML (250C)
<b>Appearance and Odor:</b> off-white granular powder	<b>Other Solubilities:</b>
<b>Odor Threshold:</b>	<b>Boiling Point:</b>
<b>Vapor Pressure:</b> mm Hg at °F (?? °C)	<b>Freezing/Melting Point:</b> 360 °C
<b>Vapor Density (Air=1):</b>	<b>Viscosity:</b>
<b>Formula Weight:</b> 129.08	<b>Refractive Index:</b>
<b>Density:</b>	<b>Surface Tension:</b>
<b>Specific Gravity (H<sub>2</sub>O=1, at 4 °C):</b> 1.768	<b>% Volatile:</b>
<b>pH:</b> 3.8 - 4	<b>Evaporation Rate:</b>

### Section 10 - Stability and Reactivity

**Stability:** Cyanuric acid is stable at room temperature in closed containers under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization cannot occur.

**Chemical Incompatibilities:** Strong oxidizing agents.

**Conditions to Avoid:** Incompatible materials, strong oxidants.

**Hazardous Decomposition Products:** Thermal oxidative decomposition of Cyanuric acid can produce nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen..

### Section 11- Toxicological Information

#### Toxicity Data:\*

**Eye Effects:**

**Acute Oral Effects:**

Rat, oral, LD<sub>50</sub>: 7700 mg/kg

**Skin Effects:**

Oral, mouse: LD<sub>50</sub> : 3400 mg/kg

\* See NIOSH, RTECS (XZ1800000), for additional toxicity data.

### Section 12 - Ecological Information

**Ecotoxicity:** Not available.

**Environmental Fate:**

**Environmental Degradation:**

**Soil Absorption/Mobility:**

### Section 13 - Disposal Considerations

**Disposal:** Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

**Disposal Regulatory Requirements:**

**Container Cleaning and Disposal:**

### Section 14 - Transport Information

**DOT Transportation Data (49 CFR 172.101): Not Regulated**

**Shipping Name:**

**Shipping Symbols:**

**Hazard Class:**

**ID No.:**

**Packing Group:**

**Label:**

**Special Provisions (172.102):**

### Section 15 - Regulatory Information

TSCA

CAS# 108-80-5 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

## Cyanuric Acid

### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

### Section 12b

None of the chemicals are listed under TSCA Section 12b.

### TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

### SARA

### Section 302 (RQ)

None of the chemicals in this material have an RQ.

### Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

### Section 313

No chemicals are reportable under Section 313.

### Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

### Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

### STATE

CAS# 108-80-5 can be found on the following state right to know lists: Minnesota.

California No Significant Risk Level: None of the chemicals in this product are listed.

### European/International Regulations

European Labeling in Accordance with EC Directives

### Hazard Symbols:

Not available.

### Risk Phrases:

### Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 108-80-5: No information available.

### Canada

CAS# 108-80-5 is listed on Canada's DSL/NDSL List.

WHMIS: Not available.

CAS# 108-80-5 is not listed on Canada's Ingredient Disclosure List.

## Section 16 - Other Information

**Disclaimer:** All information, recommendations and suggestions appearing herein are based upon sources believed to be reliable. However, it is the users responsibility to determine the safety, toxicity and suitability for its own use of this product. WEGO CHEMICAL & MINERAL CORP. DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE USE BY OTHERS OF THIS PRODUCT.