



Pony Testing International Group



Report No.: GOIXK49V16085516

# SDS Report

Sample Description

Cyanuric acid

Applicant

Chemball (Hangzhou) Chemicals Co., Ltd.



Pony Testing International Group

www.ponytest.com



Code: virqmr7w6z

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## Safety Data Sheet

According to: ST/SG/AC.10/30/Rev.7 (GHS)

Cyanuric acid

### Section 1 - Identification of the substance/preparation and of the company/undertaking

#### Product Identifier

**Product name:** Cyanuric acid**Relevant identified uses of the substance or mixture and uses advised against****Identified uses:** Swimming pool chlorine stabilizer, sterilization, decontamination; Also can be directly used for nylon, psyche, flame retardants and cosmetics additive, raw materials for laminated plastics and high temperature glass etc.**Details of the supplier of the safety data sheet****Supplier:** Chemball (Hangzhou) Chemicals Co., Ltd.**Address:** No.970, Gao jiao Road, Hangzhou City, Zhe jiang Province 311122, PR China**TEL:** +86-15858216593**E-mail:** Elaine@chemball.com**Url:** www.chemball.com

### Section 2 - Hazards Identification

**Classification of the substance or mixture****Classification according to GHS**

Eye irritation (Category 2)

Skin irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3)

**GHS label elements:****Pictogram****Signal word**      Warning**Hazard statement(s)**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**Precautionary statement(s)**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.





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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Other hazards

**Physical and chemical hazards:** See Section 10

**Human health hazards:** See Section 11

**Environmental hazards:** See Section 12

### Section 3 - Composition/Information on Ingredient

#### Chemical composition

Component	CAS No.	Formula	Composition	EC No.	GHS CLASS
Cyanuric acid	108-80-5	C <sub>3</sub> H <sub>3</sub> N <sub>3</sub> O <sub>3</sub>	≥98.5%	203-618-0	Skin Irrit. 2 Eye Irrit. 2 STOT SE 3 H315 H319 H335

For the full text of H-Statements mentioned in this Section, see Section 16.

### Section 4-First Aid Measures

#### Description of first aid measures

**Eye Contact:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.

**Skin Contact:** Immediately wash skin with soap and copious amounts of water. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation develops and persists, seek medical attention.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Wash out mouth with water. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

**Inhalation:** Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if irritation develops or persists.

#### Personal protective equipment for first-aid responders:

No further relevant information available.

#### Most important symptoms/effects, acute and delayed:

No further relevant information available.

#### Indication of immediate medical attention and special treatment needed:

Treat symptomatically.

### Section 5 - Fire-Fighting Measures

#### Extinguishing media

#### Suitable Extinguishing Media:



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Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special hazards arising from the substance or mixture:

Combustible solid which burns but propagates flame with difficulty. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion. Sensitivity to static discharge is not expected under normal conditions, however, dusts must be controlled to avoid potential ignition. Keep product and empty container away from heat and sources of ignition.

#### Advice for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## Section 6 - Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

If packages rupture. Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Spilled or released at long industrial condition: Remove ignition sources, Keep away from heat and flame, evacuate area. Avoid dust formation. Avoid breathing dust. Shut off source of the leak only if it is easy to do so. Do not get water inside containers.

### Environmental precautions

Keep spilled material out of sewers, ditches and bodies of water.

### Methods and materials for containment and cleaning up

Sweep up and place in suitable containers for recycle or disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## Section 7 - Handling and Storage

### Precautions for safe handling

Dust generated in handling of this product can be explosive if sufficient quantities are mixed in air. In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Avoid physical damage to the container. Ground and bond containers when transferring material. Take necessary action to avoid static electricity discharge. Do not eat, drink or smoke while handling the product. Keep away from heat. Keep away from sources of ignition. Do not allow water to get into the container.

### Conditions for safe storage, including any incompatibilities

Keep away from heat and flame. Store in a cool, dry, well-ventilated away from incompatible substances. Store in a tightly closed container. Keep away from moisture and water. Keep out of the reach of children.





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### Specific end uses

No data available

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

#### Exposure limits:

CAS# 108-80-5:

Russia- STEL: 0.5 mg/m<sup>3</sup>, Skin

### Engineering Controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

### Personal Protective Equipment

**Eyes Protection:** Wear chemical splash goggles.

**Skin Protection:** Wear appropriate protective gloves.

**Body Protection:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Respirators Protection:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Other Protection:** Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. To maintain good health habits.

## Section 9 - Physical and Chemical Properties

### Physical State

Colour

Odour

pH

Melting point/freezing point

Boiling point or initial boiling point and boiling range

Flash point

Flammability (solid, gas)

Lower and upper explosion limit/ flammability limit

Vapour pressure

Relative vapour density

Density/Relative density

Solubility

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Powder or granular

White

Slightly bitter taste

≥3.8 (10% Aqueous solution)

>360°C

No data available

Not applicable

No data available

No data available

No data available

No data available

1.768

Partly miscible

No data available

No data available

320°C





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Kinematic viscosity

No data available

Particle characteristics

No data available

## Section 10 - Stability and Reactivity

Reactivity No data available

Chemical stability Stable under normal conditions.

### Possibility of hazardous reactions

Hazardous Polymerization Will not occur.

Hazardous Reactions None under normal processing.

Conditions to avoid Incompatible materials. Excess heat, Exposure to moist air or water

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products Under fire conditions toxic fumes may be released. Carbon oxides, Nitrogen oxides

## Section 11 - Toxicological Information

### Information on toxicological effects

#### Acute toxicity:

CAS# 108-80-5:

Oral, mouse: LD50 = 3400 mg/kg;

Oral, rat: LD50 = 7700 mg/kg;

Skin, rabbit: LD50 &gt; 5000 mg/kg;

Skin corrosion/irritation No data available

#### Serious eye damage/eye irritation

CAS# 108-80-5: Eyes - rabbit - Mild eye irritation(500 mg/24H);

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available

#### Carcinogenicity

Cyanuric acid- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

#### Potential Health Effects

Eye: The material may cause eye irritation. Prolonged eye contact may cause inflammation characterised by a temporary redness of the conjunctiva.

Skin: Skin contact with the material may be harmful; systemic effects may result following absorption. This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition. Open cuts, abraded or irritated skin should not be exposed to this material. Entry





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into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.

**Ingestion:** Ingestion is an unlikely route of exposure; no hazard in normal industrial use. Accidental ingestion of the material may be harmful; Single and repeated dose studies in animals by oral and skin routes of cyanuric acid and some cyanurates doses several studies showed kidney damage. Triazine derivatives have been shown to cause structural damage to the liver in animal studies.

**Inhalation:** Inhalation of airborne dust may cause irritation to the mucous membrane and upper airways. Symptoms of exposure can include coughing, sneezing and breathing difficulties. The body's response to such irritation can cause further lung damage. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive.

### Signs and Symptoms of Exposure

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. When ingested in large amounts the substance may have effects on the kidneys, resulting in tissue lesions. Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Strong evidence exists that this substance may cause irreversible mutations (though not lethal) even following a single exposure. Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of producing mutation. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Additional Information

RTECS#: CAS# 108-80-5: XZ1800000

## Section 12 - Ecological Information

### Toxicity

CAS# 108-80-5: Fish: Pimephales promelas (fathead minnow): LC50 > 2100 mg/l/96 h;  
 Fish: Lepomis macrochirus: LC50 = 1400 mg/l/96 h;

<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Results of PBT and vPvB assessment</b>	No data available
<b>Other adverse effects</b>	Do not empty into drains.

## Section 13 - Disposal Considerations

### Waste treatment methods

**Waste from Residues / Unused Products:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**Contaminated packaging:** Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.





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## Section 14 - Transport Information

	IATA	IMDG	RID/ADR
Proper shipping name	Not regulated	Not regulated	Not regulated
Hazard class	/	/	/
Un number	/	/	/
Packing group	/	/	/

## Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture  
Regulatory information: Reference to the local, national, US, EU, CA and international regulations.

### Canada

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

### US Federal

#### Toxic Substance Control Act (TSCA)

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

### China

#### Inventory of Existing Chemical Substances Produced or Imported in China (IECSC)

CAS# 108-80-5 is listed on the IECSC Inventory.

## Section 16 - Additional Information

**SDS Creation Date:** Feb 21, 2020

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Text of H-code(s) mentioned in Section 3

Eye Irrit. 2: Eye irritation(Category 2)

Skin Irrit. 2: Skin irritation (Category 2)

STOT SE 3: Specific target organ toxicity - single exposure(Category 3)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.





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#### Other Information:

ACGIH: (American Conference of Governmental Industrial Hygienists); CAS: (Chemical Abstracts Service);  
DSL: (the Domestic Substances List of Canada); EC: (European Commission); IARC: (International Agency  
for Research on Cancer); IATA: (International Air Transport Association); IMDG: (International Maritime  
Dangerous Goods); ADR: (European Agreement Concerning the International Carriage of Dangerous Goods by  
Road); RID: (Regulations Concerning the International Carriage of Dangerous Goods by Rail); LD50: (Lethal dose,  
50 percent kill); NDSL: (the Non-domestic Substances List of Canada); NIOSH: (US National Institute for  
Occupational Safety and Health); NTP: (US National Toxicology Program); OSHA: (US Occupational Safety and  
Health); PEL: (Permissible Exposure Level); REL: (Recommended Exposure Limit); RTECS: (Registry of  
Toxic Effects of Chemical Substances); STEL: (Short Term Exposure Limit); TDG: (Recommendations on the  
TRANSPORT OF DANGEROUS GOODS Model Regulations); TSCA: (Toxic Substances Control Act of USA);  
IECSC: (Inventory of Existing Chemical Substances Produced or Imported in China); TWA: (Time Weighted  
Average); TLV: (Threshold Limit Value)

