

# SAFETY DATA SHEET

Version: v1

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : Cyanuric chloride  
Product Number : C118499  
Brand : aladdin  
CAS-No. : 108-77-0

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances.

### 1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION  
Address : 14078 Meridian Parkway,  
Riverside, CA. 92518  
Telephone : +1 (833) 552-7181  
Fax : no data available

### 1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300  
CHEMTREC®, Outside the USA :

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 2), H330

Skin corrosion/irritation (Category 1B), H314

Serious eye damage/eye irritation (Category 1), H318

Skin sensitization (Category 1), H317

Specific target organ toxicity - single exposure (Category 3), respiratory tract irritation, H335

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

### 2.2 GHS Label elements, including precautionary statements

Phone: +1 (833) 552-7181 Email: QualityAssurance@aladdinsci.com Website: <https://www.aladdinsci.com/>

**Pictogram**



**Signal word**

Danger

**Hazard statement(s)**

|      |                                         |
|------|-----------------------------------------|
| H302 | Harmful if swallowed                    |
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction     |
| H330 | Fatal if inhaled                        |

**Precautionary statement(s)**

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P260           | Do not breathe dust/fume/gas/mist/vapors/spray.                                                                                  |
| P261           | Avoid breathing dust/fume/gas/mist/vapors/spray.                                                                                 |
| P264           | Wash hands [and ...] thoroughly after handling.                                                                                  |
| P270           | Do not eat, drink or smoke when using this product.                                                                              |
| P271           | Use only outdoors or in a well-ventilated area.                                                                                  |
| P272           | Contaminated work clothing should not be allowed out of the workplace.                                                           |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| P284           | [In case of inadequate ventilation] Wear respiratory protection.                                                                 |
| P320           | Specific treatment is urgent (see ... on this label).                                                                            |
| P321           | Specific treatment (see ... on this label).                                                                                      |
| P330           | Rinse mouth.                                                                                                                     |
| P363           | Wash contaminated clothing before reuse.                                                                                         |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.                                                                               |
| P302+P352      | IF ON SKIN: wash with plenty of water.                                                                                           |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P333+P313      | IF SKIN irritation or rash occurs: Get medical advice/attention.                                                                 |
| P362+P364      | Take off contaminated clothing and wash it before reuse.                                                                         |
| P405           | Store locked up.                                                                                                                 |
| P403+P233      | Store in a well-ventilated place. Keep container tightly closed.                                                                 |
| P501           | Dispose of contents/container to an approved waste disposal plant.                                                               |
| P301+P317      | IF SWALLOWED: Get medical help.                                                                                                  |
| P305+P354+P338 | IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |
| P302+P361+P354 | IF ON SKIN: Take off Immediately all contaminated clothing. Immediately rinse with water for several minutes.                    |
| P316           | Get emergency medical help immediately.                                                                                          |

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

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|                  |                                      |
|------------------|--------------------------------------|
| Synonyms         | : 2,4,6-Trichloro-1,3,5-triazine;TCT |
| Formula          | : C3Cl3N3                            |
| Molecular weight | : 184.41                             |
| CAS No.          | : 108-77-0                           |
| EC-NO.           | : 203-614-9                          |

| Component         | Classification                                                                                                                                                                                                                                                            | Concentration |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Cyanuric chloride | Acute toxicity Category 4; Acute toxicity Category 2; Skin corrosion/irritation Category 1B; Serious eye damage/eye irritation Category 1; Skin sensitization Category 1; Specific target organ toxicity - single exposure Category 3; H302, H330, H314, H318, H317, H335 | ≥99%          |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO2) Dry powder

#### Unsuitable extinguishing media

Foam Water

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NOx) Hydrogen chloride gas Combustible. Vapors are heavier than air and may spread along floors. May not get in touch with: Water Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

## 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## 5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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# SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

## 6.2 Environmental precautions

Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

## 6.4 Reference to other sections

For disposal see section 13.

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# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Work under hood. Do not inhale substance/mixture. Keep workplace dry. Do not allow product to come into contact with water. Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Never allow product to get in contact with water during storage. Air and moisture sensitive. 2-8 °C, filled with argon, stored dry.

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## 7.3 Specific end use(s)

no data available

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

## 8.2 Exposure controls

### Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

### Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Body Protection

protective clothing

#### Respiratory protection

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

#### Control of environmental exposure

Do not let product enter drains.

# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

|                                            |                           |
|--------------------------------------------|---------------------------|
| a) Appearance                              | form: powder color: white |
| b) Odour                                   | no data available         |
| c) Odour Threshold                         | no data available         |
| d) pH                                      | no data available         |
| e) Melting point/freezing point            | 145-150 (°C)              |
| f) Initial boiling point and boiling range | 190°C                     |
| g) Flash point                             | >200 °C                   |
| h) Evaporation rate                        | no data available         |
| i) Flammability (solid, gas)               | no data available         |

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|                                                 |                                                                                                                                                  |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| j) Upper/lower flammability or explosive limits | no data available                                                                                                                                |
| k) Vapour pressure                              | no data available                                                                                                                                |
| l) Vapour density                               | no data available                                                                                                                                |
| m) Relative density                             | 1.92                                                                                                                                             |
| n) Water solubility                             | Soluble in acetone, diethyl ether, dioxane, chloroform, carbon tetrachloride and ketones. Slightly soluble in methanol. Insoluble in cold water. |
| o) Partition coefficient: n-octanol/water       | no data available                                                                                                                                |
| p) Auto-ignition temperature                    | no data available                                                                                                                                |
| q) Decomposition temperature                    | no data available                                                                                                                                |
| r) Viscosity                                    | no data available                                                                                                                                |
| s) Explosive properties N                       | no data available                                                                                                                                |
| t) Oxidizing properties N                       | no data available                                                                                                                                |

## 9.2 Other safety information

no data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

sensitive to moisture

### 10.3 Possibility of hazardous reactions

Violent reactions possible with: Ammonia alcoholates Alcohols Amines dimethyl sulfoxide Dimethylformamide mercaptans Oxidizing agents Water The generally known reaction partners of water.

### 10.4 Conditions to avoid

Strong heating. Moisture.

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - male - 315 mg/kg (OECD Test Guideline 401) Symptoms: If ingested, severe burns of the mouth and

throat, as well as a danger of perforation of the esophagus and the stomach. LC50 Inhalation - Rat - male and female - 4 h - 0.15 mg/l - aerosol (OECD Test Guideline 403) Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract, After a latency period:, Lung edema, Pneumonia LD50 Dermal - Rabbit - male and female - > 2,000 mg/kg (OECD Test Guideline 402)

**Skin corrosion/irritation**

Skin - Rabbit Result: Causes burns. - 24 h (OECD Test Guideline 404) Remarks: Necrosis

**Serious eye damage/eye irritation**

Eyes - Rabbit Result: Severe irritations (OECD Test Guideline 405) Remarks: (Regulation (EC) No 1272/2008, Annex VI) Causes serious eye damage.

**Respiratory or skin sensitisation**

Maximization Test - Guinea pig Result: positive (OECD Test Guideline 406)

**Germ cell mutagenicity**

Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

Repeated dose toxicity - Rabbit - male and female - Dermal - 3 Weeks - NOAEL (No observed adverse effect level) - 500 mg/kg - LOAEL (Lowest observed adverse effect level) - 50 mg/kg Remarks: Subchronic toxicity burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Decomposition of the substance with tissue moisture. This substance should be handled with particular care. Liver - Irregularities - Based on Human Evidence

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish static test LC50 - Poecilia reticulata (guppy) - > 1,000 mg/l - 96 h (OECD Test Guideline 203) Remarks: (in analogy to similar products) Toxicity to daphnia and other aquatic static test EC50 - Daphnia magna (Water flea) -

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1,000 mg/l - 48 h (OECD Test Guideline 202) invertebrates Toxicity to algae static test ErC50 - Selenastrum capricornutum (green algae) - 620 mg/l - 72 h (OECD Test Guideline 201) Remarks: (in analogy to similar products) Toxicity to bacteria NOEC - activated sludge - 576 mg/l - 5 Days Remarks: (ECHA)

## 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: 8 % - Not readily biodegradable. (OECD Test Guideline 301E) Remarks: (in analogy to similar compounds)

## 12.3 Bioaccumulative potential

Does not bioaccumulate.

## 12.4 Mobility in soil

no data available

## 12.5 Results of PBT and vPvB assessment

no data available

## 12.6 Other adverse effects

Possible decomposition products in case of hydrolysis are: Hydrogen chloride gas Discharge into the environment must be avoided.

# SECTION 13:

## 13.1 Disposal considerations

### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

### Contaminated packaging

Dispose of as unused product.

# SECTION 14: Transport information

### DOT (US)

UN number: 2670

Packing group: II

Class: 8

Proper shipping name: CYANURIC CHLORIDE

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data available

Environmental Hazards: no

### IMDG

UN number: 2670

Packing group: II

EMS-No: no data available

Proper shipping name: CYANURIC CHLORIDE

### IATA

UN number: 2670

Packing group: II

Class: 8

Proper shipping name: CYANURIC CHLORIDE

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## SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## SECTION 16: Other information

Prepared By

Regulatory Affairs

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Revision Summary

SDS sections updated v1

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