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国家化学品分类鉴别与评估重点实验室（山东）

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# 编制报告

## DRAW UP REPORT

编号 (No): 37000010212104979

日期 (Date): 2021-07-29

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样品名称	中文名称	三氯异氰尿酸	
	英文名称	Trichloroisocyanuric acid	
委托单位	山东大明消毒科技有限公司		
生产单位	山东大明消毒科技有限公司		
委托项目	安全数据单 (英文) 编制		
样品组分 (企业申报)	三氯异氰尿酸含量: 99.85%, 水含量: 0.15%。		
编制依据	联合国《关于危险货物运输的建议书 规章范本》(第二十一修订版) 联合国《全球化学品统一分类和标签制度》(第八修订版)		
编制地点	青岛市黄岛区黄河东路 99 号	委托日期	2021-06-28

### 结论

根据客户委托要求, 按照联合国《关于危险货物运输的建议书·规章范本》和《全球化学品统一分类和标签制度》的相关规定进行了安全数据单的编制, 中文样本见附件1。

授权签字人:

印章:



签发日期: 2021-07-29

注: 1. 无实验室盖章, 此报告无效。流水号: 2591。

2. 本报告部分复印无效。



## Chemical Safety Data Sheet

### Section 1 IDENTIFICATION

**GHS Product identifier:** Trichloroisocyanuric acid.

**Other means of identification:** 1,3,5-Trichloro-s-triazine-2,4,6(1H,3H,5H)-trione.

**Recommended use of the chemical and restrictions on use:** This material can be used as antiseptic, bleach of textile industry, wool treating agent, etc.

**Supplier's details:** /

**Emergency phone number:** /

### Section 2 HAZARDS IDENTIFICATION

**Classification of the substance or mixture:**

Oxidizing Solid Category 2

Acute toxicity, oral Category 4

Serious eye damage/eye irritation 2A

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

Hazardous to the aquatic environment, acute hazard Category 1

Hazardous to the aquatic environment, long-term hazard Category 1

**GHS Label elements, including precautionary statements:**

Symbol:



Signal word: Danger

Hazard statement(s): May intensify fire; oxidizer. Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.

Precautionary statement(s):

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Wash ...thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Response:

In case of fire: Use water spray, dry powder or foam to extinguish. If swallowed: Get medical help. Rinse mouth. If inhaled: Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical help. Collect spillage.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal:

Dispose of contents/container to in accordance with national regulations.

**Other hazards which do not result in classification:** /



## Section 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration
Trichloroisocyanuric acid	87-90-1	99.85%

## Section 4 FIRST AID MEASURES

**Description of necessary first aid measures**

**If inhaled:** Quickly leave and move to a place with fresh air. Keep the airway unobstructed. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration immediately. Consult a physician.

**In case of skin contact:** Remove contaminated clothing and rinse with plenty of running water.

**In case of eye contact:** Rinse thoroughly with plenty of running water for at least 15 minutes and consult a physician.

**If ingestion:** Rinse mouth with water. Consult a physician.

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

**Indication of immediate medical attention and special treatment needed, if necessary:** /

## Section 5 FIREFIGHTING MEASURES

**Suitable extinguishing media:** Use foam, dry powder, water spray, etc.

**Special hazards arising from the chemical:** This substance is non-flammable and can help combustion. It decomposes and produces toxic fumes in high temperature and fire.

**Special protective actions for fire-fighters:** Firefighters must wear air breathing apparatus, fire-fighting suits and protective gloves to extinguish in the upwind direction. Whenever possible, remove the container from the fire to open space and use spray water to cool unopened containers.

## Section 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** It is recommended that emergency personnel wear protective masks and fire protective overalls. Do not touch the spill directly.

**Environmental precautions:** Isolate contaminated areas and restrict access.

**Methods and materials for containment and cleaning up:** Small amount of leakage: Avoid dusting, use a clean shovel to collect in a dry, clean, covered container and transfer to a safe place. Do not allow products to enter restricted areas such as sewers. A large amount of leakage: Cover with plastic sheeting and canvas. Use a non-sparking tool to collect the waste or transport it to a waste disposal site for disposal.

## Section 7 HANDLING AND STORAGE

**Precautions for safe handling:** There should be sufficient local exhaust in workplace. Operators should be trained and strictly follow the operating procedures. Operators are advised to wear protective masks, normal protective clothing and rubber gloves. Operators should load and unload lightly during handling to prevent damage to the package. There should be leakage treatment equipment in workplace. There may be harmful residues in empty containers.

**Conditions for safe storage, including any incompatibilities:** Store in a cool, dry, well-ventilated warehouse. Keep away from fire and heat. Protect from direct sunlight. The package should be sealed and not exposed to moisture. It should be stored separately from reducers, amines, flammable materials, etc., and should not be mixed. The storage area should be provided with suitable materials to contain spills.

## Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION



**Control parameters:/****Appropriate engineering controls:** Close strictly and provide sufficient local exhaust.**Individual protection measures****Eye/face protection:** Wear a protective mask.**Skin protection:** Wear normal protective clothing.**Respiratory protection:** A dust mask (full face mask) must be worn when exposed to dust. Air respirators should be worn during emergency rescue or evacuation.**Thermal hazards: /**

## Section 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Solid granule.
<b>Colour</b>	White.
<b>Odour</b>	/
<b>Melting point/freezing point</b>	/
<b>Boiling point or initial boiling point and boiling range</b>	/
<b>Flammability</b>	/
<b>Lower and upper explosion limit/flammability limit</b>	/
<b>Flash point</b>	/
<b>Auto-ignition temperature</b>	/
<b>Decomposition temperature</b>	>225°C.
<b>pH</b>	/
<b>Kinematic viscosity</b>	/
<b>Solubility</b>	1.2g/100mL (25°C).
<b>Partition coefficient: n-octanol/water (log value)</b>	0.26.
<b>Vapour pressure</b>	/
<b>Density and/or relative density</b>	2.07.
<b>Relative vapour density</b>	/
<b>Particle characteristics</b>	/

## Section 10 STABILITY AND REACTIVITY

**Reactivity: /****Chemical stability:** This substance is stable in normal temperature.**Possibility of hazardous reactions:** Decomposes on heating. This produces toxic fumes. May explode on heating. The substance is a strong oxidant. It reacts with combustible and reducing materials. Reacts violently with ammonia, ammonium salts and amines and sodium carbonate. This generates fire and explosion hazard. Reacts with strong acids. This produces toxic gas chlorine.**Conditions to avoid:** Spark, static electricity and high temperature.**Incompatible materials:** Reducing agent, amines, flammable materials, etc.**Hazardous decomposition products:** Oxycarbides, nitrogen oxide and chlorine hydride.

## Section 11 TOXICOLOGICAL INFORMATION

**Information on the likely routes of exposure:** Ingestion (swallowing), skin/eye exposure and inhalation.**Symptoms related to the physical, chemical and toxicological characteristics: /****Acute health effects:**

Ingestion can cause symptoms such as nausea, vomiting and abdominal pain.

Skin contact can cause redness and irritation.  
Inhalation can cause cough, throat irritation.  
Eyes contact can cause redness and irritation.

**Chronic health effects:** /

**Numerical measures of toxicity (such as acute toxicity estimates):**

LD50(oral, rat): 406 mg/kg

LD50(dermal, rabbit): >2000 mg/kg

LC50(inhalation, rat): >12.5 mg/l 4h

#### Section 12 ECOLOGICAL INFORMATION

**Ecotoxicity (aquatic and terrestrial, where available):**

Endpoint	Test Duration (hr)	Species	Value
LC50	96	Fish	0.23mg/L
EC50	48	Crustacea	0.17mg/L
EC50	72	Algae or other aquatic plants	>100mg/L
NOEC	96	Fish	0.056mg/L

**Persistence and degradability:** High.

**Bioaccumulative potential:** Low (BCF=0.5).

**Mobility in soil:** Low (KOC=48.36).

**Other adverse effects:** /

#### Section 13 DISPOSAL CONSIDERATIONS

**Disposal methods:** Dispose this product by safe burial. Damaged containers are prohibited from being reused and should be buried in the prescribed place.

#### Section 14 TRANSPORT INFORMATION

**UN number:** 2468.

**UN proper shipping name:** TRICHLOROISOCYANURIC ACID, DRY.

**Transport hazard class(es):** 5.1.

**Packing group, if applicable:** II.

**Environmental hazards:** Severe marine pollutant.

**Special precautions for user:** /

**Transport in bulk according to IMO instruments:** /

#### Section 15 REGULATORY INFORMATION

**Regulations:** This safety data sheet is in compliance with the following national standards: GB/T 16483-2008, GB 13690-2009, GB 18218-2018, GB 15258-2009, GB 6944-2012, GB 190-2009, GB/T 191-2008, GB 12268-2012, GB/T 15098-2008, GBZ 2.1-2019, GBZ 2.2-2007 as well as the following regulations: Railway Dangerous Goods Transport Administrative Regulation, Dangerous Chemicals Safety Administrative Regulation.

#### Section 16 OTHER INFORMATION

References	
	UN Recommendations on the Transport of Dangerous Goods Model Regulations
	UN Globally Harmonized System of Classification and Labelling of Chemicals



<b>Form Date</b>	29-July-2021
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Note 1: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2: Manufacturer/supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.

Note 3: As a result of product features without the existence of certain information or no data available (such as boiling point does not exist for the solid) in the table with "/" logo.

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