

SAFETY DATA SHEET FOR CHEMICAL PRODUCTS (SDS)

Report No. NB20211110294EN

Date: November 23, 2021

Page: 1/10

Applicant Name : INNER MONGOLIA HENGDELI BIOLOGICAL TECHNOLOGY CO. LTD

Applicant Address : NORTH OF SOUTH XINGFU ROAD, WULANBU TOWN AND
INDUSTRIAL PARK, ALXA LEAGUE ECONOMIC AND
TECHNOLOGICAL DEVELOPMENT ZONE, INNER MONGOLIA
AUTONOMOUS REGION

Product Name : Trichloroisocyanuric acid

Received Date : November 18, 2021

Compilation Period : November 18, 2021 to November 23, 2021

Regulatory Requirements : As requested by the applicant, the Safety Data Sheet is prepared according to GB/T 16483, GB/T 17519.



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Date: November 23, 2021

Page: 2/10

SECTION 1. Identification of the substance/preparation and company

1.1 Product Identification	:	Trichloroisocyanuric acid
1.2 Model No.	:	/
1.3 Recommended Use	:	/
1.4 Manufacturer Name	:	INNER MONGOLIA CHEMICAL INDUSTRY CO. LTD
1.5 Manufacturer Address	:	ALXA ECONOMIC DEVELOPMENT ZONE, USTAI TOWN, ALXA LEAGUE, INNER MONGOLIA
1.6 Manufacturer Tel	:	0483-8182836
1.7 Manufacturer Fax	:	/
1.8 Manufacturer Email	:	/
1.9 Emergency Phone	:	15248877111

SECTION 2. Hazards identifications

Emergency hazard description: Solid, oxidizer, may cause fire in contact with combustible, irritating to eyes and skin, harmful to aquatic environment.

2.1 Hazard Class:

According to GB 3000-2013 Rules for classification and labelling of chemicals(Part 2~29), classification of risk categories.

Oxidizing solids, categories 2

Serious eye damage/eye irritation, categories 2A

Specific target organ toxicity, single exposure; Respiratory tract irritation, categories 3

Hazardous to the aquatic environment, acute hazard, categories 1

Hazardous to the aquatic environment, long-term hazard, acute hazard, categories 1

2.2 Pictograms:



2.3 Signal word:

Warning

2.4 Hazard description:

- H272 May intensify fire; oxidizer
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects

2.5 Precautionary description:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P220 Keep away from clothing and other combustible materials.
- P221 Take all precautions to avoid mixing with combustibles.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash hand and face thoroughly after handling
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

SECTION 3. Composition / information on ingredients

Ingredient(s) of the product: Pure

Substance name	Conc. (%)	CAS. No
Symclosene	90	87-90-1

SECTION 4. First aid measures

General advice: Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

4.1 Following inhalation:

- Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a



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physician immediately

4.2 Following skin contact:

Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feeling uncomfortable.

4.3 Following eye contact:

In case of contact may cause irritation, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician immediately if eyes are hurt.

4.4 Following ingestion:

Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

SECTION 5. Firefighting measures

5.1 Hazardous Characteristics:

Touch water/ Heating releases nitrogen trichloride. Exposure to organic combustibles may cause an explosion.

5.2 Extinguishing Media:

Dry powder, Chemical foam, Carbon dioxide, do not use water.

5.3 Firefighting procedures:

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

Take all precautions to avoid mixing with combustibles.

5.4 Hazardous combustion products:

Nitrogen trichloride NCl_3

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

If combustion occurs, do not dispose of it by non-professionals.

Wear appropriate protective measures (SEE SECTION 8).

6.2 Environmental precautions:



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Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

6.3 Cleaning method:

Remove by liquid absorbing material (e.g. kieselguhr) . Adhered or collected material should be promptly disposed of. Disposal of discarded waste/pollutants refers to SECTION 13.

SECTION 7. Safe handling and storage

7.1 Handling Notes:

Keep indoor ventilation or local exhaust device.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Use only outdoors or in a well-ventilated area.

7.2 Storage Notes:

Stored in cool and dry condition.
Do not store with incompatible material (see section 10.2)

SECTION 8. Exposure controls / personal protection

8.1 Occupational Exposure Limit:

No relevant information

8.2 Engineering Control:

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.
Ensure that eyewash stations and safety showers are proximal to the work-station location.

8.3 Personal Protection:

General requirement:



SAFETY DATA SHEET FOR CHEMICAL PRODUCTS (SDS)

Report No. NB20211110294EN

Date: November 23, 2021

Page: 6/10

Respiratory:	If exposure limits are exceeded or If irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Eyes:	Wear protective goggle (Conform to EC EN 166 or US-NIOSH).
Hands:	Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.

8.4 Sanitary Measure:

Forbid smoking, eating and drinking in working places. Washing hands after handling products.

SECTION 9. Physical and chemical properties

Appearance and Color	White particle
Odour	Pungent odor
PH value	4 (1% aqueous solution)
Flammability	Combustion improver
Density(g/cm ³)	2.07
Relative steam density (air = 1)	Not Applicable
Vapor pressure(MPa)	Not Applicable
Octanol/water partition coefficient	0.26
Viscosity	Not Applicable
Flash point(°C,Closed cup)	Not Applicable
Boiling point(°C)	No Data
Melting point (°C)	246-247
Evaporation rate (kg/s)	No Data
UEL %(V/V)	Not Applicable
LEL %(V/V)	Not Applicable
Auto-ignition temperature(°C)	Not Applicable
Decomposition temperature(°C)	246
Solubility	Soluble in water

SECTION 10. Stability and reactivity



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10.1 Stability:

Stable under recommended storage and handling conditions (See section 7).

Nitrogen trichloride is produced by water/heating.

10.2 Material for avoiding:

Strong reducing agent, organic matter, water

10.3 Contact conditions for avoiding:

Sunlight, high temperature.

10.4 Hazardous decomposition products:

Nitrogen trichloride.

SECTION 11. Toxicological information**11.1 Acute toxicity:**

Based on available data, the classification criteria are not met.

11.2 Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

11.3 Serious eye damage/irritation:

Serious eye damage/eye irritation, categories 2A

11.4 Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

11.5 Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

11.6 Carcinogenicity:

Based on available data, the classification criteria are not met.

11.7 Reproductive toxicity:

Based on available data, the classification criteria are not met.

11.8 STOT-single exposure:

Specific target organ toxicity, single exposure; Respiratory tract irritation, categories 3

11.9 STOT-repeated exposure:

Report No. NB20211110294EN

Date:

November 23, 2021

Page: 8/10

Based on available data, the classification criteria are not met.

11.10 Aspiration hazard.:

Based on available data, the classification criteria are not met.

SECTION 12. Ecological information

12.1 Toxicity:

Symclosene(CAS: 87-90-1); LC50=0.23mg/L, 96h, fish

12.2 Persistence and degradability:

Symclosene: Water/soil - high, air - high

12.3 Bioaccumulative potential:

Symclosene: Bioenrichment - low (BCF=0.5)

12.4 Mobility in soil

Symclosene: Mobility in soil-low (koc=48.36)

12.5 Other Dangers:

No data available.

SECTION 13. Disposal considerations

13.1 Handling method for waste:

Handling waste according to the local regulations. Contact specific waste disposal company or companies recommended by local laws.

13.2 Handling method for uncleaned packaging

Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

SECTION 14. Transport information



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Date:

November 23, 2021

Page: 9/10

Packaging Label	
UN NO	2468
Technical name	TRICHLOROISOCYANURIC ACID, DRY
Transport hazard class	5.1
Subsidiary hazard class	None
Packing group	II

SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations / laws for pure substances or mixtures

Catalogue of hazardous chemicals (2015 Edition)

Directory No: 1868

Name: Trichloroisocyanuric acid|trichloro-1,3,5-triazinetriol|symclosene

CAS No: 87-90-1

EC No: 201-782-8

MAK (German Maximum Workplace Concentration)

Not included in the list.

EU law 2012/18/EU

Hazardous substances Appendix I: Not included in the list.

Seveso category: Not applicable

Qualifying quantity(tonnes) for the application of lower-tier requirements: Not applicable

Qualifying quantity(tonnes) for the application of upper-tier requirements: Not applicable

Other regulations:

Not included in the list.

EU regulations Reach annex XVII restricted substances (2062019)

Not included in the list.

Substances authorized in Annex IV of EU regulation reach (13 / 6 / 2017)

Not included in the list.



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Date: November 23, 2021

Page: 10/

15.2 Safety assessment of chemical substances

Not evaluated

SECTION 16. Other information

The above information is based on the data of which we are aware and is believed to be correct as of the date 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 date hereof may suggest modifications of the information, we do not assume any responsibility for the result 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.

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