

SAFETY DATA SHEET

TCCA 90 TABLET

Revision Date 16/05/2018



1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name

TCCA 90% TABLET (Trichloroisocyanuric Acid)

Details of the supplier of the safety data sheet

Palica Chemistry Co., Limited

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Emergency Phone

800-424-9300 (USA)

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2 - HAZARDS IDENTIFICATION

Emergency Overview

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

Ox. Sol. 2, H272

Acute Tox. 4, H302

Eye Irrit. 2, H319

STOT SE 3, H335

Aquatic Acute 1, H400

Aquatic Chronic 1, H410

GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statements

H272 - May intensify fire; oxidiser.

H302 - Harmful if swallowed.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

- 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.
P261 - Avoid breathing dust / fume / gas / mist / vapors / spray.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
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.

Response

- P301 + P312 - IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell.
P304 + P340 - IF INHALED: remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER/doctor/... if you feel unwell.
P337 + P313 - If eye irritation persists: Get medical advice/attention.
P330 - Rinse mouth.
P370 + P378 - In case of fire: Use copious amounts of water to extinguish.
P391 - Collect spillage.

Storage

- P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.

Disposal

- P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Dispose of contents and container to an approved waste disposal plant.

3 - COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredient(s):

Chemical Name	CAS No.	EC No.	Concentration	Classification	Specific Concentration limits, M-Factors, Acute Toxicity Estimates(ATE)
Trichloroisocyanuric Acid	87-90-1	201-782-8	98-100%	H272, H302, H319, H335, H400, H410, EUH031	N/A
Others	N/A	N/A	N/A	Not classified	N/A

4 - FIRST AID MEASURES

General advice

- Consult a physician. Show this safety data sheet to the doctor in attendance.
Move out of dangerous area. Remove contaminated clothing.

If inhaled

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice / attention if you feel unwell.

In case of skin contact

- Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

In case of eye contact

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 advice/attention.

If swallowed

IF SWALLOWED: Call a POISON CENTRE or doctor / physician if you feel unwell. Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation.

Indication of any immediate medical attention and special treatment needed

If skin irritation or rash occurs, get medical advice/attention.

5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media

Flood with copious amounts of water.

Unsuitable extinguishing media

Do not use ABC fire extinguishers.
Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents.

Special hazards during fire fighting

No data available.

Special hazards arising from the substance or mixture

In case of fire, the following can be released: Chlorine, Nitrogen, Nitrogen trichloride, Cyanogen chloride, Oxides of carbon, Phosgene.

Hazardous thermal decomposition products

No data available.

Special protective actions for fire-fighters

No data available.

Advice for fire-fighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Wear chemical resistant oversuit. Cool containers / tanks with water spray.

Further information

No data available.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures**For non-emergency personnel:**

Keep unnecessary and unprotected persons away. Isolate hazard area and deny entry.
Do not get in eyes, on skin or on clothing. Do not breathe dust, fume, gas, mist, vapors, or spray.
Wear appropriate personal protective equipment recommended in Section 8, Exposure Controls / Personal Protection, of the SDS. Keep away from combustible materials.

For emergency responders:

Evacuate personnel to safe areas. Keep people away from and upwind of spill / leak.

Ventilate the area. Wear suitable protective clothing.

Environmental precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up

DO NOT add water to spilled material. DO NOT use floor sweeping compounds to clean up spills. Sweep and scoop spilled material into clean, dedicated equipment. Every attempt should be made to avoid mixing spilled material with other chemicals or debris when cleaning up. DO NOT attempt to reseal contaminated drums. DO NOT transport wet or damp material. Damp material should be neutralized to a non-oxidizing state.

7 - HANDLING AND STORAGE

Personal precautions

Safe handling

Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or dust when opening container. Avoid creation of dust. Wash thoroughly after handling. Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the SDS. NEVER add water to this product. Always add product to large quantities of water. Use clean, dry utensils. Do not add the product to any dispensing device containing residuals of other products. Keep away from heat, sparks, flame and other sources of ignition.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities

Store and handle in accordance with all current regulations and standards. (NFPA Oxidizer Class 1).

Store away from open flames, and combustibles. Do not allow water to get in container.

If liner is present, tie after each use. Keep container tightly closed and properly labeled.

Store containers on pallets. Keep away from food, drink and animal feed.

Keep separated from incompatible substances (see below or Section 10 of the Safety Data Sheet).

Product has an indefinite shelf life if stored in original container in a cool, dry place.

Incompatibilities/ Materials to Avoid: acids, ammonia, bases, floor sweeping compounds, calcium hypochlorite, reducing agents, organic solvents and compounds.

Other advice

No further information available.

8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

Ensure adequate ventilation.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing. Appropriate techniques should be used to remove potentially contaminated clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Wear safety glasses with side-shields. Wear chemical safety goggles with a face shield to protect against eye and skin contact when appropriate. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Hand protection

Wear appropriate chemical resistant gloves. Consult a glove manufacturer for assistance in selecting an appropriate chemical resistant glove. Protective Material Types: Butyl rubber, Natural rubber, Neoprene, Nitrile, Polyvinyl chloride (PVC), Tyvek.

Body protection

Wear protective clothing to minimize skin contact. When potential for contact with dry material exists, wear disposable coveralls suitable for dust exposure, such as Tyvek[®]. Contaminated clothing should be removed and laundered before reuse.

Respiratory protection

A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. The added protection of a full face-piece respirator is required when visible dusty conditions are encountered and eye irritation may occur. Acid gas cartridges with N95 filters are required when fumes or vapor may be generated. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: solid

Color: white

Odor: Chloride

Odor threshold: no data available

Safety data

pH: no data available

Melting point: no data available

Initial boiling point and boiling range: no data available

Flash point: no data available

Density: 2.07 g/cm³

Relative density: no data available

Viscosity: Kinematic no data available

Ignition temperature: no data available

Lower explosion limit: no data available

Upper explosion limit: no data available

Partition coefficient(n-octanol/water): no data available

Water solubility: soluble in water

VOC (w/w): no data available

10 - STABILITY AND REACTIVITY

Storage stability

No data available.

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) in closed containers.

Reactivity

No data available.

Possibility of hazardous reactions

No data available.

Conditions to avoid

Incompatible materials. Keep away from direct sunlight. To avoid thermal decomposition, do not overheat.

Incompatible materials

Acids, ammonia, bases, floor sweeping compounds, calcium hypochlorite, reducing agents, organic solvents and compounds.

Hazardous decomposition products

Chlorine, nitrogen, nitrogen trichloride, cyanogen chloride, oxides of carbon, phosgene.

11 - TOXICOLOGICAL INFORMATION

Primary routes of exposure

No data available.

Acute toxicity

No data available.

Skin corrosion / irritation

No data available.

Serious eye damage / eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available.

Aspiration hazard

No data available.

Subacute to chronic toxicity

No data available.

Additional Information

No data available.

12 - ECOLOGICAL INFORMATION**Toxicity****Acute (short-term) toxicity:**

LC50(96h, Fish): 8000 mg/L

LC50(48h, Crustacea): > 1000 mg/L

EC50(72h, Algae/aquatic plants): Not available

Chronic (long-term) toxicity:

NOEC(Fish): 1000 mg/L

NOEC(Crustacea): 160 mg/L

NOEC(Algae/aquatic plants): 1250 mg/L

Persistence and degradability

No data available.

Biodegradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

PBT and vPvB conclusion

No data available.

Other adverse effects

Discharge into the environment must be avoided.

13 - DISPOSAL CONSIDERATIONS**Product**

Dispose of in accordance with all applicable local and national regulations. Use recovery/recycling where feasible, otherwise incineration is the recommended method of disposal. Empty containers may contain hazardous residues. Do not cut, puncture or weld on or near to the container. Labels should not be removed from containers until they have been cleaned. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.

Contaminated packaging

Dispose of as unused product.

14 - TRANSPORT INFORMATION

IMDG

UN Number: 2468

Class(es): 5.1

UN Proper Shipping Name: Trichloroisocyanuric acid, dry

Packing Group: II

Environmental Hazards: Yes

EMS Code: F-A, S-Q

IATA

UN Number: 2468

Class(es): 5.1

UN Proper Shipping Name: Trichloroisocyanuric acid, dry

Packing Group: II

Environmental Hazards: Yes

15 - REGULATORY INFORMATION

Safety, health and environmental regulations

No data available.

Safety assessment

No chemical safety assessment.

16 - OTHER INFORMATION

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Disclaimer

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