

Material Safety Data Sheet**3,4,4 - Trichloro Carbanilide****Section 1 - Product and Company Information**

Substance : 3,4,4 - Trichloro Carbanilide
Trade Name : Trichloro Carbanilide
Chemical Family : Anilides
Company : Shiva Pharmachem Ltd.
Plot No. 588,
Village Luna – 391440
Taluka Padra,
District: Vadodara, Gujarat,
India.
Phone No. : +91-2662-221021 / 224360
Fax No. : +91-2662-223314

Section 2 - Composition / Information on Ingredients

Product Name	CAS No.	EC No.	Mol. Formula	Mol. Weight.
Trichloro Carbanilide	101-20-2	202-924-1	C ₁₃ H ₉ Cl ₃ N ₂ O	315.59 g/mol

Section 3 – Hazards Identification**SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIROMENT**

Very Toxic to aquatic organisms may cause long term adverse effects in the aquatic environment.

Section 4 – First Aid Measures**INHALATION**

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Skin Contact

In case of contact, immediately wash skin with soap and copious amounts of water atleast for 15 minutes

EYE Contact

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician

INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

Section 5 – Fire Fighting Measures**EXTINGUISHING MEDIA**

Suitable: Water Spray. Carbon dioxide, dry chemical powder or appropriate foam

Special Risks

Specific Hazard(s): Emits toxic fumes under fire conditions

Material Safety Data Sheet

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 – Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete

Section 7 - Handling and Storage

HANDLING

Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed.

Section 8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

Hand Protection: Protective gloves.

Eye Protection: Chemical safety goggles

Section 9 - Physical and Chemical Properties

Appearance Physical State	: Solid
Color	: White
Form	: Powder

Property	: Value	at Temperature or Pressure
----------	---------	----------------------------

PH	: N/A
BP/BP Range	: N/A
MP/MP Range	: 254.0 – 256.0 °C
Flash Point	: > 150° C Method: Closed Up

Material Safety Data Sheet

Flammability	: N/A
Autoignition Temp	: N/A
Oxidizing Properties	: N/A
Explosive Properties	: N/A
Explosive Limits	: N/A
Vapor Pressure	: < 0.1 mmHg at 25° C
SG/Density	: 1.53 g/cm ³ at 25° C
Partition Coefficient Log Kow	: 5.4 – 6.2
Viscosity	: N/A
Vapor Density	: N/A
Saturated Vapor Conc	: N/A
Evaporation Rate	: N/A
Bulk Density	: N/A
Decomposition Temp.	: N/A
Solvent Content	: N/A
Water Content	: N/A
Surface Tension	: N/A
Conductivity	: N/A
Miscellaneous Data	: N/A
Solubility	: N/A

Section 10 - Stability and Reactivity

STABILITY:

Stable: Stable

Materials to Avoid: Strong oxidizing agents, Strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Hydrogen chloride gas, Nitrogen Oxides.

HAZARDOUS POLYMERIZATION

Hazardous polymerization: will not occur

Section 11 - Toxicological Information

ACUTE TOXICITY

LD50

Oral

Rat

> 34600 mg/kg

LD50

Intraperitoneal

Mouse

2100 Mg/ Kg

LD50

Skin

Rabbit

> 7.94 mg/kg

Material Safety Data Sheet

IRRITATION DATA

Eyes
Rabbit
Remarks: No irritation effect

Skin
Rabbit
Remarks: No irritation effect

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE

Skin Contact: May Cause skin irritation.
Skin absorption: May be harmful if absorbed through the skin
Eye Contact: May cause eye irritation
Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
Ingestion: May be harmful if swallowed

TARGET ORGAN INFORMATION

Skeletal muscle, liver, kidneys

CHRONIC EXPOSURE – CARCINOGEN

Result: This Product contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, and ACGIH, NTP or EPA classification.

CHRONIC EXPOSURE-MUTAGEN

Mutation test: Histidine reversion (Ames)

Section 12 - Ecological Information

ECOTOXICOLOGICAL EFFECTS

Test Type	: EC50 Daphnia
Species	: Daphnia magna
Time	: 48 h
Value	: 0.01 mg/l
Test Type	: LC50 Fish
Species	: Onchorhynchus mykiss (Rainbow trout)
Time	: 96 h
Test Value	: LC50 Fish
Species	: Lepomis macrochirus (Bluegill)
Time	: 96 h
Test Value	: 0.08 mg/l
Species	: Cyprinodon variegates (sheep shead minnow)
Time	: 96 h
Test Value	: > 1000 mg/l

Material Safety Data Sheet

Section 13 - Disposal Considerations

SUBSTANCE DISPOSAL

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal state and local environmental regulations

Section 14 - Transport Information

RID/ADR

UN No. : 3077
Hazard Class : 9
PG : III
Proper Shipping Name : Environmentally hazardous substance, solid n.o.s

IMDG

UN No. : 3077
Hazard Class : 9
PG : III
Proper Shipping Name : Environmentally hazardous substance, Solid n.o.s
Marine Pollutant : No
Severe Marine Pollutant : No
Technical Name : Required

IATA

UN No. : 3077
Hazard Class : 9
PG : III
Proper Shipping Name : Environmentally, Hazardous substance solid n.o.s.
Inhalation Packing Group I : No
Technical Name : Required

Section 15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: N

Dangerous for the environment.

R-PHRASES: 50/53

Very Toxic to aquatic organisms may cause long term adverse effects in the aquatic environment.

S-PHRASES: 60-61

This Material and its container must be disposed off as hazardous waste. Avoid release to the environment. Refer to special instruction / safety data sheet.

COUNTRY SPECIFIC INFORMATION

Germany
WGK: 2
Self classification.

Material Safety Data Sheet

Section 16 - Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Shiva Pharmachem Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incident, consequential or exemplary damages, howsoever arising, even if Shiva Pharmachem Ltd has been advised of the possibility of such damages