



## **AGRISOL (INDIA) PVT. LTD.,**

**Corp. Off.:** D.No.3-6-45/A,

Plot No. 130, Vivekananda Nagar Colony,

Kukatpally, Hyderabad – 500 072, Telangana State.

Phone: 040-48555451

Email: [info@agrisolindia.in](mailto:info@agrisolindia.in)

### **CARTAP HYDROCHLORIDE TECHNICAL MATERIAL SAFETY DATA SHEET**

#### **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name	:	<b>Cartap Hydrochloride Technical</b>
IUPAC Name	:	<i>S,S'</i> -(2-dimethylaminotrimethylene) bis(thiocarbamate)
Manufacturer / Supplier	:	<b>Agrisol (India) Pvt. Ltd.,</b> Sy.No. 164 & 165, Udumulapadu (V), Dhone(M), Kurnool Dist., AP – 518 222.
Emergency Phones	:	040-48555451

#### **2. COMPOSITION / INFORMATION ON INGREDIENTS**

Formulation types	:	Technical material
Active Ingredients	:	Cartap Hydrochloride
Chemical Abstracts Name	:	<i>S,S'</i> -[2-(dimethylamino) 1,3-propanediyl] dicarbamothioate
IUPAC Name	:	<i>S,S'</i> -(2-dimethylaminotrimethylene) bis(thiocarbamate)
CAS NO	:	15263-53-3
Molecular Formula	:	C <sub>7</sub> H <sub>16</sub> ClN <sub>3</sub> O <sub>2</sub> S <sub>2</sub>
Molecular Weight	:	273.8



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<b>INGREDIENT</b>	<b>CAS NO #</b>	<b>PROPORTION (w/w)</b>
Cartap Hydrochloride	15263-53-3	98.00%
Other Ingredients	Not available	2.00%

#### **3. HAZARDOUS IDENTIFICATION**

Emergency overview : Harmful in contact with skin and if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Routes of entry : Ingestion, skin and eye contact, inhalation.

##### **Health Hazards**

Inhalation : Toxic if inhaled. Avoid breathing dust or spray mist.

Skin Contact : Harmful in contact with skin

Ingestion : Toxic if swallowed.

#### **4. FIRST AID MEASURES**

If Inhaled : Remove the patient to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.



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If ingested	:	If swallowed, Do NOT give anything by mouth to an unconscious person. Wash out mouth with water provided person is conscious. Get medical attention.
Eye contact	:	Flush with plenty of water for 15-20 minutes. Take Doctor's advise.
Skin Contact	:	Wash skin with soap and plenty of water. Victim is to be taken to hospital immediately and take Doctor's advise.
Note to physician	:	No specific antidote. Treat symptomatically.

#### **5. FIRE FIGHTING MEASURES**

Extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Hazardous Substances or Mixtures	:	Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas
Protective equipment for firefighters	:	Firefighters should wear approved self-contained breathing apparatus and full protective clothing.

#### **6. ACCIDENT RELEASE MEASURES**

Personal precautions	:	Wear respiratory protection. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe
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areas.

Environmental precaution : Do not flush to drain. Discharge into environment must be avoided.

Method for cleaning up : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### **7. HANDLING AND STORAGE**

Handling : Do not breathe dust. Avoid contact with eyes and skin. Provide appropriate ventilation.

Storage : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

#### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Engineering controlled : Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

##### **Personal protective equipment (PPE):**

Eye / Face Protection : Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be



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readily accessible to the work area.

- Body Protection : Complete suit protecting against chemicals based on their concentration and the toxic nature.
- Skin protection : Handle with gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use.
- Respiratory Protection : Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls.

#### **9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : White Crystalline Powder
- Melting Point : 179 - 181°C
- Bulk Density : 1.17 g/ml
- Vapour Pressure (mPa) :  $100 \times 10^{-10}$  (20°C)
- Solubility : In water 200 g/l (25°C). Very slightly soluble in Ethanol and Methanol. Insoluble in acetone, diethyl ether, ethyl acetate, chloroform, benzene and hexane.
- Stability : Stable in acidic conditions, but hydrolysed in neutral or alkaline media.



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#### **10. STABILITY AND REACTIVITY**

- Chemical stability : Stable in acidic conditions, but hydrolysed in neutral or alkaline media.
- Incompatible materials : Strong Oxidizing agents.

#### **11. TOXICOLOGICAL INFORMATION**

- Acute Oral Rat LD<sub>50</sub> : Male Rats - 345 mg/kg b.w.,  
Female Rats - 325 mg/kg b.w.,  
Male Mice - 150 mg/kg b.w.,  
Female Mice - 154 mg/kg b.w.
- Acute Dermal LD<sub>50</sub> : Mice - > 1000 mg/kg b.w.
- Primary Skin Irritation : Non-irritating to skin (Rabbits)
- Acute Eye Irritation : Non-irritating to eyes (Rabbits)
- Acute Inhalation LC<sub>50</sub> (6h) : For Rats - > 0.54 mg/l

#### **12. ECOTOXICOLOGICAL INFORMATION**

- Fish LC<sub>50</sub> : For Carp (24 h) - 1.6 mg/l  
For Carp (48 h) - 1.0 mg/l



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Daphnia	:	Chronic 21 day NOEC (mg l <sup>-1</sup> ) - 0.002 EC <sub>50</sub> (48 h) - 0.01 mg/l
Other Aquatic spp.	:	LC <sub>50</sub> (24 h) for <i>Moina macrocopa</i> - 12.5 - 25 mg/l
Bees	:	Moderately toxicity in Honey Bees

#### 13. DISPOSAL CONSIDERATION

This material and its container must be disposed of as hazardous waste. Do not contaminate water, food or feed by storage or disposal. Contamination with product will render water, food or feed unfit for human or animal consumption.

Triple rinse the empty container. Add the rinsing to the spray mixture in the tank. Make the empty rinsed container unsuitable for further use. Dispose off the container in accordance with the provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturing or the manufacturer or the provincial regulatory agency.

#### 14. TRANSPORT INFORMATION

##### Rail / Road (RIR / ADR)

Proper Shipping Name	:	Toxic, Solid, Organic, N.O.S.
Class	:	6.1
UN No.	:	2811
Packing Group	:	III

##### Sea - IMDG Code

Proper Shipping Name	:	Toxic, Solid, Organic, N.O.S., Marine Pollutant
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Class : 6.1

UN No. : 2588

Packing Group : III

#### **Air (ICAO / IATA)**

Proper Shipping Name : Toxic, Solid, Organic, N.O.S.

Class : 6.1

UN No. : 2588

Packing Group : III

#### **15. REGULATORY INFORMATION**

EC Classification Hazard Symbol	Xn	Harmful
Special Risk (R-Phrases)	R21/22	Harmful in contact with skin and if swallowed
	R 50	Very toxic to aquatic organisms
	R 53	May cause long-term adverse effects in the aquatic environment
Safety Advice (S-Phrase)	S36/37	Wear suitable protective clothing and gloves
	S 60	This material and its container must be disposed of as hazardous waste
	S 61	Avoid release to the environment. Refer to special instructions/safety data sheet





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#### **16. OTHER 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 we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.*

**Prepared by** : Agrisol (India) Pvt. Ltd.

**Date** : 30.11.2019