

Cartap 500 SP

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Cartap 500 SP
Pesticide classification: Insecticide
UN No.: 3077

Supplier

Enviro Bio-Chem (Pty) Ltd
Co. Reg. No.: 2013/194774/07
44 Kerk Street, Lichtenburg
North West, South Africa 2740

Registration Holder

RT Chemicals
Co. Reg. No.: CK87/21925/23
44 Kerk Street, Lichtenburg
North West, South Africa 2740

Telephone: +27 87 231 7261
Fax: 086 541 7948
Website: www.envirobiochem.co.za

24 Hr Emergency Number: Bateleur: +27 83 123 3911

In case of Poisoning:

Poison Information Centre: +27 82 446 8946
Tygerberg Hospital: (+27 21) 931 6129
Poison Emergency Enquiries: (+27 21) 689 5227

Common Name: Cartap Hydrochloride 500 g/kg SP
Chemical Name: S,S'- (2 – dimethylaminotrimethylene) bis (thiocarbamate)
Empirical Formula: C₇H₁₆C₄N₃O₂S₂
CAS No.: 15263-53-2
RSA Reg. No.: L6797 Act 36 of 1947

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>Concentration</u>
Cartap Hydrochloride	≥50% (w/w)
Inert Ingredients	≤50% (w/w)

3. HAZARD IDENTIFICATION

Hazard Class: WHO Class II -Moderately hazardous.

Main Hazard: Cartap is moderately toxic to mammals on acute exposure by several routes of administration.

Flammability: Not flammable or explosive.

Chemical Hazard: No specific chemical hazard to mention.

Biological Hazard: No specific biological hazard to mention.

4. FIRST AID MEASURES AND PRECAUTIONS

If poisoning is suspected, do not wait for symptoms to develop. Contact a physician, the nearest hospital or the nearest Poison Control Centre.

Symptoms of Human Poisoning: Symptoms may include dizziness, headaches, weakness, pale complexion, vomiting, perspiration, slobbering, myosis and vague eyesight. For heavy poisoning the symptoms may also include hypotension, unconsciousness, breathing difficulty, congestion of eye cornea and stuffy breath. Dermatitis (such as urticaria) may be a result of skin contact with the product. This is characterized by partially red, swollen, painful and itchy skin. The symptoms of poisoning can be observed from a few minutes to an hour after exposure.

First Aid Measures:

Skin Contact: Remove contaminated clothing and wash before re-use. Wash affected skin areas with fresh running water and soap. Treat symptomatically. Seek medical attention if symptoms persist.

Eye Contact: Hold eyes open and flush immediately with clear, clean running water for at least 15 minutes. If eye symptoms (redness, irritation or pain) persist refer patient to ophthalmologist for examination of eye.

Ingestion: Take gastric lavage at once. Seek medical attention.

Inhalation: Move victim from contaminated area to fresh air. Avoid inhalation of vapor or spray mist. Seek medical attention.

Advice to Physician: Take antipine 0.5-2 mg orally or have muscle injection, adding adrenaline if poisoning is heavy. Pralidoxime iodide, pyraloxime methylchloride, obidoxime chloride, morphine are forbidden to use.

Antidote: L-cysteine

5. FIRE FIGHTING MEASURES

Flammability: Not flammable or explosive.

Extinguishing Agents: Extinguish fires with CO₂, dry powder or foam.

Firefighting: Wear positive pressure self-containing breathing apparatus. Remove container from fire area if possible. Contain fire control water for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Keep material out of sewers and water sources. Avoid inhalation of hazardous vapours. Keep upwind.

Special Hazards: During a fire this product may release smoke and hazardous decomposition products.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal Precautions: Wear protective clothing. Avoid breathing vapours or spray drift. If necessary, wear a self-contained breathing apparatus.

Environmental Precautions: Prevent spilled material from entering drains or watercourses. Contain spill and absorb with earth, sand, clay or another absorbent material.

Spills: Wear gloves (natural or synthetic rubber) when removing spillage and cleaning up contaminated areas. Cartap 500 SP spilled on the floor may be swept up with a broom and collected in a box, plastic bag or tin can for further usage. If spilled material is not used immediately, enclose the container in a plastic bag, tie it at the top and firmly attach a Cartap 500 SP label to the bag. Remove as much as possible of the remaining material using a damp rag. Then scrub the area thoroughly with water containing ammonia and detergent followed by a clean water rinse.

7. HANDLING AND STORAGE REQUIREMENTS

Handling: Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not re-use them. Follow manufacturer's instructions for cleaning and maintaining PPE. Keep and wash PPE separately from other laundry. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Do not apply through any type of irrigation system. Only protected workers may be in the area during application.

Storage: Store at temperature not exceeding 30 °C. Store in original sealed containers, in a well-ventilated and dry storehouse. Keep away from direct sunlight, food, seed, animals, children and uniformed persons. Do not leave spray solution in spray tanks for long periods.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Acceptable Daily Intake (ADI): 0.1 mg/kg body weight.

Engineering control measures: Maintain good ventilation to minimize exposure. Local exhaust ventilation may be necessary.

Personal Protective Equipment:

Clothing: Long-sleeved shirt, long pants, shoes plus socks, protective waterproof (impermeable) gloves. Employee must wear appropriate protective clothing and equipment to prevent prolonged skin contact with this product.

Gloves: Natural or synthetic rubber gloves.

Eye Protection: Wear eye protection. During mixing or pouring operations or other activities in which eye contact with product is likely to occur, splash goggles should be worn. Where there is any possibility that an employee's eyes may be exposed to this substance the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

Respiratory: If engineering controls and work practices are not effective in controlling exposure to this material, then wear an approved full-face respirator suitable for protection from mists of pesticides. Limitations of respirator use specified by the approving agency and the manufacturer must be observed.

Other Protection: Do not eat, drink or smoke while handling this product. Prevent contamination of food, feeds, drinking water and eating utensils. After using this product wash hands and face before eating. Take extreme care to avoid drift. Wash accurately (preferably a shower) after work shift. Wash hands during breaks and at the end of the work with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Fine powder.

Colour: White

Odour: Slight aromatic odour.

pH value: 3.0 - 6.0

Water: ≤ 2%

Flammability: Non-flammable

Explosive properties: Non-explosive

Corrosiveness: Corrosive to iron.

10. STABILITY AND REACTIVITY

Stability: Stable for up to 2 years under normal warehouse and field conditions.

Conditions to Avoid: None to specifically mention.

Incompatibility: None to specifically mention.

Decomposition Products: Product is hydrolysed in neutral or alkaline solutions.

11. TOXICOLOGICAL INFORMATION

Acute toxicity based on the active ingredient toxicity.

Acute Oral LD₅₀ (rat): 650 mg/kg (calculated).

Acute Dermal LD₅₀ (rabbit): >2 000 mg/kg (calculated).

Acute Inhalation LC₅₀ (rat, 6 hr): >0.54 mg/ℓ air.

Skin and Eye Irritation (rabbit): Not a skin or eye irritant.

Skin Sensitization (guinea pig): Not a skin sensitizer.

Chronic Dietary Study: Results from 90-days animal studies suggest no target organ effects under the conditions of normal handling and use.

Carcinogenicity: Animal studies did not detect any carcinogenic effects. No human information available.

Mutagenicity: Animal studies did not detect any mutagenic effects. No human information available.

Teratogenicity: Animal studies did not detect any teratogenic effects. No human information available.

Reproductive Hazard: No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity is based on the active ingredient toxicity.

Aquatic Toxicity Fish LC₅₀ (24 hr): 1.6 mg/ℓ (carp).

Aquatic Toxicity Daphnia EC₅₀ (48 hr): No data available.

Aquatic Toxicity Algae EC₅₀ (5 days): No data available.

Avian Toxicity LD₅₀ (9 days): Practically have low toxicity to birds.

Bee Toxicity LD₅₀: Moderately toxic to honeybees.

Biodegradability: The DT₅₀ in soil is 3 days.

Bio-accumulation: In rats, the carbonyl carbon is hydrolysed, and the sulphur oxidised with N-demethylation of thiomethyl derivatives. No accumulation occurs in tissues. Is rapidly excreted in the urine.

Mobility: No data available.

13. DISPOSAL CONSIDERATION

Pesticide Disposal: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Waste resulting from the use of this product that cannot be re-used or reprocessed and should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable local procedures. Hydrolysis under alkaline conditions is a suitable method to dispose of small quantities of the product. After hydrolysis, dilute and dispose of in an approved landfill. Comply with any local legislation applying to waste disposal.

Package Product Wastes: Completely empty soluble bag into application equipment. Then dispose of empty box in a sanitary landfill or by incineration.

14. TRANSPORT INFORMATION

Un Number: 3077

Class: 9

Packaging Group: III

Proper Shipping Name: Environmentally hazardous substance; Solid, N.O.S. (contains Cartap).

15. REGULATORY INFORMATION

Risk Phrases: R21- Harmful in contact with skin.

R22- Harmful if swallowed.

R51- Toxic to aquatic organisms.

Safety Phrases: S2- Keep out of reach of children.

S24- Avoid contact with skin.

S25- Avoid contact with eyes.

S37/39- Wear suitable gloves and eye/face protection.

S46- If swallowed, seek medical advice immediately and show this container or label.

S61- Avoid release to the environment. Refer to special instructions/safety data sheets.

National Legislation: This product is registered under Act 36 of 1947 of the Republic of South Africa. It is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions.

16. OTHER INFORMATION

Note: Read and understand all the information on the product label before using the product.

Disclaimer: The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

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