



# Safety Data Sheet

SDS No.:  
SDS-P/SP-P/01

Padan

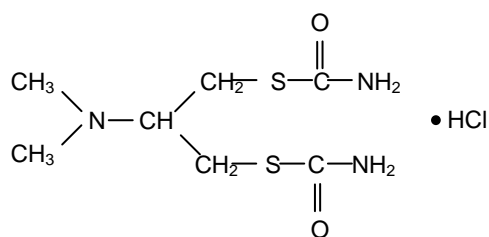
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## Section 1: Identification of the Hazardous Chemical and of the Supplier

### 1.1 Product Identifier

Product Name: Cartap Hydrochloride 50% Soluble Powder  
Trade Name: Padan  
Active Ingredient: S,S'-2-dimethylaminotrimethylene bis (thiocarbamate) hydrochloride  
CAS No.(AI): 15263-53-3  
Structural Formula:



Recommended Usage: Insecticide

### 1.2 Supplier's Information

Address: Agricultural Chemicals (M) Sdn. Bhd.  
962, Lorong Perusahaan 8  
Taman Perindustrian Perai  
13600 Perai , Pulau Pinang  
Malaysia  
Tel.: +6-04-3907988  
Fax: +6-04-3905703  
Web: [www.agrichem.com.my](http://www.agrichem.com.my)  
Emergency Phone: +6-04-3907988

## Section 2: Hazard Identification

Classification: Acute Toxicity (Oral): Category 4  
Skin Sensitization: Category 1  
Specific Target Organ Toxicity – Single Exposure: Category 1 (Central Nervous System)  
Acute Hazards the Aquatic Environment: Category 1  
Chronic Hazards to the Aquatic Environment: Category 1

Pictogram:



Signal Word: Danger



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## Hazard Statement:

H302: Harmful if swallowed.  
H317: May cause allergic skin reaction.  
H370: Causes damage to central nervous system.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

## Precautionary Statement:

P270: Do not eat, drink, or smoke when using this product.  
P261: Avoid breathing dust/vapours.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
P307+P311: IF exposed: Call a POISON CENTER or doctor/physician.

## Section 3: Composition and Information of the Ingredients of the Hazardous Chemical

Component	CAS No.	Weight, %	Hazard Code
Cartap Hydrochloride	15263-53-3	50 %	H302, H332, H370, H400, H410
Surfactant	-	< 1 %	H302, H315, H319, H413
Stabilizer	-	< 0.50 %	H302

## Section 4: First-aid Measures

**Inhalation:** Avoid breathing dust. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If vomiting occurs, keep head low so that stomach content does not get into the lungs.

**Skin Contact:** Remove/take off immediately all contaminated clothing. Contaminated work clothing shall not be allowed out of the workplace. Take off contaminated clothing and wash before reuse. Wash face and hands thoroughly after handling. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/ attention.

**Eye Contact:** 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.

**Ingestion:** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Induce vomiting after drinking. If



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Symptoms: vomiting occurs, keep head low so that stomach content does not get into the lungs.  
Notes to Physician: No data available.  
Atropine sulphate is recommended to acute poisoning, as treatment strategy.

## Section 5: Fire-fighting Measures

Suitable Extinguishing Media: For small fires: dry chemical powder, carbon dioxide, water spray, regular foam.  
For large fires: water spray, fog, regular foam.  
Specific Hazard During Fire: Gas in combustion contains nitrogen oxides, sulphur oxides and carbon monoxides, carbon dioxide, ammonia and hydrocarbons.  
Special Protective Equipment: Fire fighters should wear full-faced self-contained breathing apparatus and protective clothing. Avoid water spray.

## Section 6: Accidental Release Measures

Personal Precautions: Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.  
Environmental Precautions: Avoid release to the environment.  
Method for Cleaning Up: Wear protective clothing as indicated in Section 8. Collect the spill into waste container for disposal. Wash the contaminated area with a little water and detergent. Adsorb with inert material such as clay or earth. Collect into the same container for disposal. Prevent the spillage from entering local drainage system.

## Section 7: Handling and Storage

Precautions for Safe Handling: Read the label before use. Wear protective clothing such as pesticide respiratory masks, protective gloves and clothing while handling.  
Conditions for Safe Storage: Keep in original containers, tightly closed, in a cool, dry and well-ventilated place. Do not store with animal feeds or foodstuff. Keep out of reach of children or farm animals.  
Incompatibles: Strong oxidizers, strong acids, strong bases.

## Section 8: Exposure Control and Personal Protection

Exposure Limit: No data available



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Engineering Control:	Local exhaust ventilation
Individual Protection Measure:	Avoid breathing dust. Always wash hands thoroughly before eating or drinking. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin and eyes.
Personal Protective Equipment:	
Eye Protection:	Wear safety goggles.
Skin Protection:	Wear suitable protective clothing, rubber gloves and boots.
Respiratory Protection:	Wear pesticide respiratory masks.

## Section 9: Physical and Chemical Properties

Appearance:	Greenish fine powder
Odour:	Characteristic odour
Odour Threshold:	No data available
pH:	No data available
Melting/Freezing Point:	187.8°C (Technical)
Initial Boiling Point:	No data available
Boiling Range:	No data available
Flash Point:	Non-inflammable
Evaporation Rate:	No data available
Flammability:	No data available
Upper Flammability Limit:	No data available
Lower Flammability Limit:	Particulate explosive lower limit: 130 g/m <sup>3</sup> (<75µm) (Technical)
Vapour Pressure:	2.5 x 10 <sup>-5</sup> Pa at 25°C (Technical)
Vapour Density:	No data available
Relative Density:	No data available
Solubility in Water:	Soluble in water
Partition Coefficient P <sub>o/w</sub> :	0.43 (25°C, pH 4.1) (Technical)
Auto-ignition Temperature:	No data available
Decomposition Temperature:	200°C (27 – 40 Pa) (Technical)
Viscosity:	No data available

## Section 10: Stability and Reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	Stable under normal conditions.
Hazardous Reaction:	Strong oxidizers, strong acids, strong bases: fire and explosion hazards. Will form explosive mixtures with air. Generation and diffusion of dust.
Condition to Avoid:	Direct sunlight, heat and extreme temperature, ignition sources and accumulation of static electricity.
Incompatible Material:	Strong oxidizers, strong acids, strong bases.
Hazardous Decomposition Product:	Nitrogen oxides, sulphur oxides and carbon oxides on combustion.



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## Section 11: Toxicological Information

### 11.1 Acute Toxicity

Component: Cartap hydrochloride		
Ingestion, Oral LD <sub>50</sub> :		
Rat		325 mg/kg
Inhalation, LC <sub>50</sub> :		
Dust/Mist (Rat) – 4h		3.5 mg/l
Component: Surfactant		
Ingestion, Oral LD <sub>50</sub> :		1700 mg/kg
Component: Stabilizer		
Ingestion, Oral LD <sub>50</sub> (Rat):		1650 mg/kg

### 11.2 Chronic Effect from Short and Long Term Exposure

Skin Contact:	May cause allergic skin reaction
Eye Contact:	No data available
Inhalation:	No data available
Ingestion:	Harmful if swallowed
Carcinogenicity (Technical):	Rat carcinogenicity study - non-carcinogenic
Mutagenicity (Technical):	In vitro: Ames test – negative, DNA repair assay – negative In vivo: Dominant lethal test (mouse) – negative, chromosome aberration test (rat) – negative
Teratogenicity (Technical):	Rat teratology study – non-teratogenic

### 11.3 Symptoms

No data available

## Section 12: Ecological Information

### Ecotoxicity:

Component: Cartap Hydrochloride		
Aquatic Toxicity:		
Fish (Common carp), LC <sub>50</sub>		0.6 mg/l
Crustacea ( <i>Daphnia magna</i> ), LC <sub>50</sub>		0.065 mg/l
Algae (Green algae), ErC <sub>50</sub> (0-72h)		9.3 mg/l
Component: Surfactant		
Aquatic Toxicity:		
Algae, EC <sub>50</sub> (72h)		10 – 100 mg/l
Crustacea ( <i>Daphnia</i> ), EC <sub>50</sub> (48h)		10 – 100 mg/l
Bacteria		>10000 mg/l Warburg test

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available



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Mobility in Soil: No data available  
Other Adverse Effect: No data available

## Section 13: Disposal Information


Dispose of contents/container appropriately in accordance to Kualiti Alam/Authorized body by DOE.

## Section 14: Transportation Information

Land (ADR/RID)	
Proper Shipping Name	Carbamate Pesticide, Solid, Toxic
Hazard Class	6.1
Hazchem Code	-
UN number	2757
Packing Group	III
Label / Mark	6
Sea (IMDG)	
Proper Shipping Name	Carbamate Pesticide, Solid, Toxic
Hazard Class	6.1
UN Number	2757
Packing Group	III
Marine Pollutant	-
Label	6
Transport Document Name	-
Air (IATA)	
Proper Shipping Name	Carbamate Pesticide, Solid, Toxic
Hazard Class	6.1
UN number	2757
Packing Group	III
Label / Mark	6
Transport Document Name	-

## Section 15: Regulatory Information

Classification: Acute Toxicity (Oral): Category 4  
Skin Sensitization: Category 1  
Specific Target Organ Toxicity – Single Exposure: Category 1  
(Central Nervous System)  
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Signal Word: Danger

Pictogram:



Pesticides Act: Class III  
Classification: Harmful

### Section 16: Other Information

Date of Preparation: 23 July 2015  
Date of Revision: -  
Reference Document: ICOP on Chemicals Classification and Hazard Communication 2014  
GHS Purple Book  
MSDS: Padan, Date revised: 12-10-2010

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.