



Safety Data Sheet

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

Padan 4G

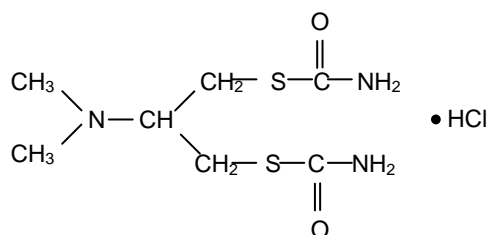
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Section 1: Identification of the Hazardous Chemical and of the Supplier

1.1 Product Identifier

Product Name: Cartap Hydrochloride 4% Granule
Trade Name: Padan 4G
Active Ingredient: S,S'-2-dimethylaminotrimethylene bis (thiocarbamate) Hydrochloride (Cartap 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
Emergency Phone: +6-04-3907988

Section 2: Hazard Identification

Classification: Skin Sensitization: Category 1
Carcinogenicity: Category 1A
Specific Target Organ Toxicity – Single Exposure: Category 2 (Central Nervous System)
Aspiration hazard: Category 1
Acute Hazards to the Aquatic Environment (Acute): Category 1
Chronic Hazards to the Aquatic Environment (Chronic): Category 1

Pictogram:



Signal Word: Danger



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Hazard Statement:

H350:	May cause cancer.
H304:	May be fatal if swallowed and enters airways.
H400:	Very toxic to aquatic life.
H410:	Very toxic to aquatic life with long lasting effects.
H317:	May cause allergic skin reaction.
H371:	May cause damage to central nervous system

Precautionary Statement:

P261:	Avoid breathing dust.
P280:	Wear protective gloves/protective clothing/eye protection/face protection.
P264:	Wash face and hands thoroughly after handling.
P301+P310:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352:	IF ON SKIN: Wash with plenty of soap and water.
P331:	Do NOT induce vomiting.

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

Component	CAS No.	Weight, %	Hazard Code
Cartap Hydrochloride	15263-53-3	4 %	H302, H332, H370, H400, H410
Carrier	-	90 % to < 95 %	H350, H335, H373
Stabilizer	-	1 % to < 3 %	H302
Carrier	-	< 1 %	H319
Carrier	-	< 1 %	H319
Surfactant	-	< 0.50 %	H351

Section 4: First-aid Measures

Call a POISON CENTER or doctor/physician if you feel unwell.

Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact:	Take off contaminated clothing and wash before reuse. 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. Do NOT induce vomiting.



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Symptoms: No data available.
Notes to Physician: Symptomatic treatment is advised. Based on the result of experiment with animals, L-Cystaine has an evident life saving efficacy by intraperitoneal injection in mice.

Section 5: Fire-fighting Measures

Suitable Extinguishing Media: Foam, water fog, dry chemical and CO₂ type fire extinguisher.
Specific Hazard During Fire: Gas in combustion contains nitrogen oxides, sulphur oxides and carbon oxides.
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 appropriate protective equipment as per required.
Environmental Precautions: Collect spillage. Avoid release to the environment.
Method for Cleaning Up: Wear protective clothing as indicated in Section 8. Evacuate non essential personnel. 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: Alkaline materials, oxidizing agents.

Section 8: Exposure Control and Personal Protection

Exposure Limit: No data available
Engineering Control: Local exhaust ventilation
Individual Protection Measure: Wear pesticide respiratory masks, protective gloves and clothing.



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Personal Protective Equipment:

Eye Protection: Wear safety goggles.
Skin Protection: Wear suitable protective clothing, rubber gloves and boots.
Respiratory Protection: Wear suitable respiratory equipment.

Section 9: Physical and Chemical Properties

Appearance: Greenish granule
Odour: Characteristic odour
Odour Threshold: No data available
pH: 2.1
Melting/Freezing Point: 179-181°C (Technical)
Initial Boiling Point: No data available
Boiling Range: No data available
Flash Point: Not applicable
Evaporation Rate: No data available
Flammability: No data available
Upper Flammability Limit: No data available
Lower Flammability Limit: No data available
Vapour Pressure: Negligible
Vapour Density: No data available
Relative Density: No data available
Solubility: Soluble in water, slightly soluble in ethanol, methanol, insoluble in acetone, benzene, chloroform, diethyl ether, ethyl acetate and n-hexane.
Partition Coefficient $P_{o/w}$: No data available
Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
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. Stable under acidic condition, unstable under neutral to alkaline condition.
Hazardous Reaction : No data available
Condition to Avoid : Direct sunlight, heat and extreme temperature, high humidity.
Incompatible Material : Alkaline materials, oxidizing agents
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 ₅₀ :		325 mg/kg
Inhalation, LC ₅₀ :		3.5mg/l (dust)
Component: Stabilizer		
Ingestion, Oral LD ₅₀ :		1650 mg/kg

11.2 Chronic Effect from Short and Long Term Exposure

Skin Contact:	May cause skin irritation
Eye Contact:	No data available
Inhalation:	No data available
Ingestion:	No data available
Carcinogenicity:	Have carcinogenic potential for humans
Mutagenicity:	Not mutagenic in Ames bacterial assay, DNA repair assay and in vivo chromosomal aberration test in mice.
Teratogenicity:	No teratogenic effects on rats and rabbits were observed.

11.3 Symptoms No data available.

Section 12: Ecological Information

Ecotoxicity:

Component: Cartap Hydrochloride		
Aquatic Toxicity:		
Fish, LC ₅₀		0.6 mg/l
Daphnia, LC ₅₀		0.065 mg/l

Persistence and Degradability	: No data available
Bioaccumulative Potential	: No data available
Mobility in Soil	: No data available
Other Adverse Effect	: No data available

Section 13: Disposal Information

Dispose of contents/container appropriately to Kualiti Alam/authorized body by DOE.



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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: Skin sensitization: Category 1
Carcinogenicity: Category 1A
Specific Target Organ Toxicity – Single Exposure: Category 2 (Central Nervous System)
Aspiration hazard: Category 1
Hazardous to the Aquatic Environment (Acute): Category 1
Hazardous to the Aquatic Environment (Chronic): Category 1

Signal Word: Danger

Pictogram:



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Pesticides Act: Class IV
 Classification: -

Section 16: Other Information

Date of Preparation: 21 July 2015
 Date of Revision: -
 Reference Document: ICOP on Chemicals Classification and Hazard Communication 2014
 GHS Purple Book
 MSDS: Padan 4G, Date Revised: 4-10-2007

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.