

MATERIAL SAFETY DATA SHEET

IMAZACURE 750 SP

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Date of Issue: September 2005

COMPANY DETAILS:

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IDENTIFICATION

Product Name: ImazaCure 750 SP
Chemical Name: 1-[2-(allyloxy)ethyl-2-(-2,4-dichlorophenethy)]-1H-imidazolium hydrogen sulphate
Chemical Formula: Imazalil sulphate: C₁₄H₁₆C₁₂N₂O₅S
CAS Number: 58594-72-2
Content: Active ingredient: Imazalil sulphate
Use: Agricultural fungicide. End-use product.

UN Number	Dangerous goods subclass	Packing Group	Symbol	R-Phrases
2588	6.1	III	Xn, Xi	R22-41

PHYSICAL & CHEMICAL DESCRIPTION/PROPERTIES

Color: White/Yellow
Odour: Odourless
Physical State: Powder
Formulation: Water soluble powder
Boiling Point: Not applicable
Melting Point: between 120-140°C
Solubility: Freely soluble
Vapour Pressure: 10⁻⁷ mm Hg at 20°C
Specific Gravity: not applicable
Octanol/water partition coefficient: Imazalil: log P_{ow} = 4.03
Compatibility: Not-compatible with wax.

HEALTH HAZARD INFORMATION

Health Effects:

Swallowed:

Harmful if swallowed.

Eyes:

Risk of serious damage to eyes.

Skin:

Mild irritant. May cause sensitization by skin contact.

Inhaled:

Harmful if inhaled

Chronic toxicity:

Non-carcinogenic, non-teratogenic, non-mutagenic or reproductive hazard in laboratory animals

FIRST AIDS:

Eyes: Immediately hold eyelids open and flush with gentle stream of water for 15 minutes. Obtain medical attention.

Skin: Flush thoroughly with water and wash affected area with soap and water. Remove contaminated clothing and wash prior to re- use. Obtain medical attention if irritation persists.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration preferably by mouth to mouth. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Immediately contact a physician or poison centre. Induce vomiting preferably using Ipecac (APF) syrup. Never induce vomiting or give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: No specific antidote is known for Imazalil sulphate. Treat symptomatically. Perform gastric lavage and administer activated charcoal.

PRECAUTIONS FOR USE

Exposure limits:

Not established

Ventilation:

Local exhaust ventilation when necessary.

Personal protective for each exposure route:

Chemical resistant gloves. Face shield or goggles. Protective clothing. Use approved respirator for pesticide mist. Wash hands and exposed skin before eating, drinking or smoking after work.

Flammability:

Non-flammable

SAFE HANDLING INFORMATION

Handling and storage practices:

Store this product in the original, closed containers in a well ventilated, cool, dry, secure area set aside for pesticides. Do not store food, beverages, or tobacco in the same area. Keep out of reach of children and animals. Avoid generation of dust and do not breathe dust. Avoid contact with eyes, skin or clothing, and do not breathe spray mist. Do not eat, drink, smoke, or apply cosmetics in areas where there is a possibility of exposure to this material. Always wash thoroughly after handling. Remove contaminated clothing, and wash it before wearing again. If spilled, clean up promptly. Keep container closed when not in use. Prevent contamination of any body of water.

Procedures for dealing with release or spill:

Wear protective clothing and equipment as described above. For small spills, cover the spill with an absorbent material such as pet litter or sand. Sweep up and place in a suitable chemical container. Dike large spills and transfer to an appropriate container for disposal. Wash the spill area with a small amount of water containing a strong detergent, absorb with absorbent material, sweep up and place in the chemical container. Seal and label the container, and dispose of it in an approved manner. Flush the spill area with water to remove any residue. Do not allow wash water to contaminate water supplies or any body of water.

Fire/ Explosion Hazard:

Extinguishing Media: Dry chemical or carbon dioxide in case of small fire. For large fires use water spray, fog, or regular foam.

Special Fire Fighting Procedures: Fire- fighters should wear full protective clothing and self- contained breathing apparatus. Evacuate non- essential personnel from the area to prevent human exposure to fire, smoke, fumes, or products of combustion. Contain run- off to prevent contamination of any bodies of water. Prevent use of contaminated buildings, area, and equipment until decontaminated.

Hazardous thermal (de)composition products:: SO_x NO_x, CO, CO₂, HCl, Chlorides.

Stability and reactivity:

Stability: Stable under normal conditions.

Conditions to avoid: Protect from (sun)light, open flame, and heat sources. Decomposes upon heating.

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Materials to avoid: Avoid contact with strong acids and strong bases.Hazardous decomposition products: SO_x NO_x, CO, CO₂, HCl, Chlorides.Hazardous reactions: Hazardous polymerization will not occur.

OTHER INFORMATION

Animal toxicity data (product):

Acute Oral toxicity:	300 mg/kg > LD ₅₀ < 750 mg/kg (rat)
Acute Dermal toxicity:	LD ₅₀ > 2000 mg/kg (rat)
Acute Inhalation toxicity:	LC ₅₀ = 0.53 to 3.35 mg/l. Harmful if inhaled.
Eye irritation:	Severely irritating to eyes (rabbit). In-use mixture (0.1% max. concentration) is not irritating to eyes.
Skin irritation:	Irritating to skin. In-use mixture (0.1% max. concentration) is not irritating to skin.
Sensitisation:	Guinea pig maximization test, sensitizer

Environmental/Ecological effects (Imazalil):

Mobility: Imazalil does not leach to ground water. Immobile in soil.

Ecotoxicity:	Birds	LD ₅₀ > 2000 mg/kg (Mallard duck)
	Fish	LC ₅₀ = 2.5 mg/l, 96 hours (rainbow trout)
Biocummulation:	K _{ow}	= 4600

TRANSPORT INFORMATION

Dangerous goods subclass:	6.1
Symbol:	Xn, Xi
R-Phrases:	R22-41
UN no:	2588
Pack. Group:	III
Proper shipping name:	Pesticide, solid, toxic, n.o.s. (Imazalil sulphate)

This information concerns only the product conforming to its specifications and limits to the uses herein stated. The information contained on this sheet is based on available knowledge of the product on date of publication. It is given in good faith.