

1: IDENTIFICATION

Chemical Name	Flusilazole: bis(4-fluorophenyl)-methyl-(1,2,4-triazol-1-ylmethyl)silane Carbendazim: methyl N-(1H-benzimidazol-2-yl)carbamate		
Synonyms	Flusilazole 12.5% + Carbendazim 25% SE	Trade Name	DAZMIR GLO
Uses	Fungicide	Molecular Formula	$C_{16}H_{15}F_2N_3Si + C_9H_9N_3O_2$
Manufacturer/Supplier	Ulink AgriTech Pvt. Ltd. Office Nos. 001 And 002, Ground Floor Wing "A" And Nos. 003 And 004 Ground Floor Wing "B", Nyati Tech Park, Wadgaon Sheri, Pune - 411014, Maharashtra		
Emergency Contact	9503095030	E-mail	info@agrostar.in

2: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Name	CAS #	Percent or Content (w/w)
Flusilazole	85509-19-9	12.5%
Carbendazim	10605-21-7	25.0%

3: HAZARD IDENTIFICATION

Classification of the Substance or Mixture;	Acute toxicity (Oral) - Category 4 Aquatic Acute Toxicity - Category 1	Acute toxicity (Dermal) - Category 4
Label Elements :	Pictogram: GHS06, GHS07, GHS09	Signal Word: Danger
Hazard Statement:	H302: Harmful if swallowed [Warning Acute toxicity, oral] H351: Suspected of causing cancer [Warning Carcinogenicity] H340: May cause genetic defects [Danger Germ cell mutagenicity] H317: May cause an allergic skin reaction [Warning Sensitization, S]	H360FD: May damage fertility; May damage the unborn child [Danger Reproductive toxicity] H400: Very toxic to aquatic life [Warning Hazardous to the aquatic environment, acute hazard] H410: Very toxic to aquatic life with long lasting effects [Warning Hazardous to the aquatic environment, long-term hazard] H411: Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment, long-term hazard]

Precautionary statement(s): P203, P261, P264, P270, P272, P273, P280, P301+P317, P302+P352, P318, P321, P333+P317, P362+P364, P18, P330, P391, P405, P501

4: FIRST AID MEASURES

General: Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation: Remove the victim to fresh air and keep him warm and quiet. Get a medical attention immediately. If not breathing, clear the airway and give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: Induce vomiting by giving one or two glasses of water. Get a medical attention immediately if the victim is unconscious or having convulsions, never give fluids nor induce vomiting

Skin Contact: Wash material off the skin in flowing water or shower with soap. If irritation persists, consult a physician immediately.

Eye Contact: Rinse immediately with plenty of water. After 5 minutes remove contact lenses if present. Rinse again with plenty of water. Continue to rinse with eyelid wide open for at least 15-20 minutes. Seek medical attention if irritation develops.

Note to physician: No specific Antidote. Treat symptomatically

Most important symptoms and effects, both acute and delayed : The most important known symptoms and effects are described in the section 3 and/or in section 11

5: FIRE FIGHTING MEASURES

Extinguishing Media: CO₂, Foam, dry chemical, water fog.

Hazardous Thermal (de)composition: Normal combustion forms carbon dioxide, water vapor and may produce oxides of nitrogen. Incomplete combustion can produce carbon monoxide

Special Procedures: Fire fighters should wear full protective clothing and self-contained breathing apparatus. Do not discharge extinguishing water into the environment.

Protection of Fire Fighters: Wear self-contained breathing apparatus for firefighting if necessary..

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

Environmental Precaution: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for Cleaning up: Absorb spillage with sand, sawdust, or earth and dispose off safely. If spillage is large, contain it by building a barrier of earth or sand bags. Clean contaminated floors with plenty of water and detergent. Dispose off absorbed material as per local regulations. Puncture containers to prevent reuse.

7: HANDLING & STORAGE

Handling: KEEP OUT OF REACH OF CHILDREN and animals. Prevent eating, drinking, and tobacco use in areas where there is a potential for exposure to the material. Wear full protective clothing and equipment (see Section 8). After work, rinse gloves and remove protective equipment, and wash hands thoroughly with soap and water after handling, and before eating, tobacco use, drinking, or using the toilet. Wash contaminated clothing separately. Keep containers closed when not in use.

Storage: Store unused product out of reach of children and animals, away from food, feedstuffs, fertilizers, seed, and water sources. Keep out of direct sunlight. Storage place should be cool, well ventilated, dry, and away from heat. Remove strong bases and oxidants away from the product. Store in closed original container only.

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

General Protection: Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist. Elbow-length PVC gloves and face shield. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

Personal Protection: Follow all precautions and instructions on the label. In all other cases the following recommendations would apply.

Respiratory Protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEKP2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Skin Protection: Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

Eye Protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Control of Environmental Exposure : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided

9:PHYSICAL/CHEMICAL PROPERTIES

Physical State: Free flowing suspension

Colour: White to off white

Wet Sieve Test; 98.0% min. (45µ is sieve)

pH (1% aq. Sol.); 5.0-8.0

10:STABILITY & REACTIVITY

Stability: Stable for the period of two years, when stored under optimum conditions.

Reactivity: No data available

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Decomposes on burning. This produces toxic fumes including nitrogen oxides and carbon monoxide. Other decomposition products - No data available In the event of fire: see section 5

Incompatible Materials: The product is not compatible with strong acidic or alkaline materials.

Conditions to avoid: Extreme temperature conditions.

11: TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: Flusilazole: LD50 rat: rats (female) 674; rats (male) 1100 mg/kg

Carbendazim: LD50 6400 mg/kg

Acute Dermal Toxicity: Flusilazole: LD50 rabbit: >2000 mg/kg; Carbendazim: LD50 rats >2000

Eye irritation: Flusilazole: Slight irritant; Carbendazim: Not an irritant

Acute Inhalation Flusilazole: LC50 (4 h) rat: > (male) 2.7; (female) 3.7 mg/L; Carbendazim: rats >5 mg/L

Skin irritation: Flusilazole: Mild irritant; Carbendazim: Not an irritant

Skin Sensitisation: Flusilazole: Non-sensitizer; Carbendazim: Non-sensitizer

12: ECOLOGICAL INFORMATION

Toxicity Toxicity to Birds: Flusilazole Acute oral LD50 for mallard ducks >1590 mg/kg; Carbendazim Acute oral LD50 for quail 5830-16000 mg/kg

Toxicity to Fish: Flusilazole LC50 (96 h) for rainbow trout 1.2, bluegill sunfish 1.7 mg/L.; Carbendazim LC50 (96 h) for carp 0.61, rainbow trout 0.83, bluegill sunfish >17.25

Toxicity to Bee Flusilazole 33.8 (oral); 165 (contact); Carbendazim >50 (contact) mg/kg

Aquatic Chronic Toxicity: No data available

Bioaccumulative potential: No data available

Other adverse effects: No data available

Persistence and degradability: No data available

Mobility in soil: No data available

13: DISPOSAL CONSIDERATION

Waste-disposal Procedures: Triple or preferably pressure rinse containers before disposal. Add rinsings to treatment mixture. Do not dispose off undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Dispose off waste product through a reputable waste contractor

14: TRANSPORT INFORMATION

UN No. 2902 **Proper Shipping Name:** PESTICIDE, LIQUID, TOXIC, N.O.S. (Contains Flusilazole + Carbendazim)

Land Transport (ADR/RID): Class-6.1, Packing Group-III, Environmental hazards - Yes

Sea Transport (IMO) (IMDG): Class-6.1, Packing group-III, Marine Pollutant-Yes

Air Transport (IATA): Class-6.1, Packing group-III, Environmental hazards -Yes

15: REGULATORY INFORMATION

Chemical safety assessment: For this product a chemical safety assessment was not carried out

16: OTHER INFORMATION

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