



MATERIAL SAFETY DATA SHEET ZODIAC 50 WDG

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product name: Dimethomorph 50% WG

Chemical name: (EZ)-4-[3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl) acryloyl]morpholine;

Product family: Morpholine

Company identification:

Hebei Guanlong Agrochemical Co., Ltd.

No. 8, Xinxing Rd., Shenpo Town Wuyi County, Hebei, P.R. China

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Percent
Dimethomorph	110488-70-5	50
Inerts	---	Balance

SECTION 3 – HAZARDS IDENTIFICATION

Primary Routes of Exposure: Inhalation, Skin Contact, and Eye Contact.

Inhalation: Inhalation of dust can cause the following: irritation of nose and throat.

Eye Contact: Direct contact with material can cause the following: moderate irritation.

Skin Contact: Prolonged or repeated skin contact can cause the following: possible skin irritation and/or dermatitis due to skin sensitization.

SECTION 4 – FIRST AID MEASURES

Ingestion: If swallowed, seek medical advice immediately and show this container or label. DO NOT induce vomiting.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Information Centre immediately.

SECTION 5 – FIRE FIGHTING MEASURES

Flammability: Non-flammable.

Extinguishing media: Water spray, carbon dioxide, foam, dry agent.

Special fire fighting procedures: Wear full protective equipment and breathing protection. Contain fire-fighting water by building area with sand or earth to prevent it entering any bodies of water. Dispose of fire control extinguishing agent and spillage later in safe manner.

Unusual fire and explosion hazards: Toxic gases including carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen chloride and smoke.





SECTION 6 – ACCIDENTAL RELEASE MEASURES

Keep all bystanders away. Avoid contact with spilled material or contaminated surfaces. Do not smoke, eat or drink during the clean process. Wear personal protective clothing and equipment. Prevent spilled material from entering drains or watercourses. Reposition any leaking containers so as to minimize leakage. Sweep spilt material into a pile. Shovel into drums for disposal. Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable.

SECTION 7 – HANDLING AND STORAGE

Handling product: Keep out of reach of children. Avoid contact with eyes and skin and avoid inhalation of product. If product on skin, immediately wash area with soap and water.

Storage: Store in the closed, original container in a cool, secure, well-ventilated area. Do not store for prolonged periods in direct sunlight. Protect from frost.

SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

Eye protection: Safety goggles or face shield.

Skin protection: Cotton overall buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves.

Respiratory protection: Respiratory protection is not normally required. If airborne concentrations are likely to exceed the exposure standards above, an approved respirator should be worn.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to tan granules

Melting point: Not applicable

Vapor pressure (mPa): Negligible

Specific Gravity: Not applicable

Solubility (g/l): Form suspension with water

Molecular formula: $C_{21}H_{22}ClNO_4$

Molecular weight: 387.86

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions.

Conditions to avoid: Heat.

Incompatibility with other materials: No major

Hazard decomposition: Combustion or thermal decomposition will evolve toxic and irritant vapours

Hazardous polymerization: Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity LD₅₀ (mg/kg, rat): Oral > 5000, Dermal >2000 mg/kg.

Acute inhalation LC₅₀: > 2.0 mg/l / 4 hours for rats

Irritation: Not irritant for skin and slight eye irritant (rabbits)

Sensitisation: Negative (Guinea pig)



SECTION 12 – ECOLOGICAL INFORMATION

Effects on birds: LD₅₀ for mallard duck and bobwhite quail > 2000 mg/kg.

Effects on fish: LC₅₀ (96 h) for rainbow trout 6.79, and carp 14 ppm.

Effects on other organisms: Bees: Acute LD₅₀ (contact) > 11µg/bee.

SECTION 13 – DISPOSAL CONSIDERATION

For disposal, incinerate this material at a facility that complied with local, state and country regulations.

SECTION 14 – TRANSPORT INFORMATION

Not regulated as dangerous cargo.

SECTION 15 – REGULATORY INFORMATION

Not regulated.

SECTION 16 – OTHER INFORMATION

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