

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Imidacloprid 210G/L + Beta-cyfluthrin 90G/L OD

SUPPLIER NAME: Shandong Weifang Rainbow Chemical Co., Ltd.
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SUPPLIER PHONE: +86-531-88875230, 88875231
SUPPLIER FAX: +86-531-88875232, 88875224
CHEMICAL NAME: Imidacloprid: (2E)-1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine
Beta-cyfluthrin:
cyano(4-fluoro-3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate
CAS NUMBER: Imidacloprid : 138261-41-3; Beta-cyfluthrin: 68359-37-5
MOLECULAR FORMULA: Imidacloprid : C₉H₁₀ClN₅O₂; Beta-cyfluthrin: C₂₂H₁₈Cl₂FNO₃
MOLECULAR WEIGHT: Imidacloprid : 255.7; Beta-cyfluthrin: 434.4
USE: Insecticide

2. COMPOSITION / INFORMATION ON INGREDIENTS

BETA-CYFLUTHRIN	90G/L
IMIDACLOPRID	210G/L
OTHER INGREDIENTS	Up to 1L

3. HAZARDS IDENTIFICATION

INHALATION: Not expected to be harmful if inhaled.

SKIN CONTACT: Repeated skin exposure may cause irritation and allergic disorders.

EYE CONTACT: May be slightly irritating to the eyes.

INGESTION: Harmful if swallowed.

CHRONIC EFFECTS OF OVEREXPOSURE: Animal studies show no evidence of oncogenic effect, no evidence of carcinogenic effects and no teratogenic potential.

SIGNS AND SYMPTOMS: No adverse health effects are expected if this product is used in accordance with the label. Symptoms of intoxication that may arise if the product is mishandled include: apathetic state, depressed muscular tone, respiratory disturbances and trembling. Muscular cramps are also possible in severe cases of poisoning.

4. FIRST - AID MEASURES

SKIN: Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.

EYES: First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

INHALATION: Move affect person to fresh air and keep at rest until recovered. If not breathing, give artificial respiration and get to a doctor.

INGESTION: Do not induce vomiting if the person is conscious. Give glass of water. Get to a doctor.

NOTES TO PHYSICIAN: No specific antidote if ingested. Treat symptomatically.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Sprayed water jet, foam, extinguishing powder, carbon dioxide, and sand

SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing and self-contained breathing apparatus.

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UNUSUAL FIRE AND EXPLOSION HAZARDS:

Fight large fires from a protected location or safe distance. Stay away from the ends of tanks. Dike for later disposal. Do not scatter spilled material with high-pressure water streams. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: washing must be prevented from entering surface water drains.

Methods for cleaning up: cover spillage with moist sand, soil or sawdust. Transfer to a container for disposal. Wash the spillage area with water, and flush to a sewer serviced by a wastewater treatment facility, if that facility is permitted to treat such wastewaters.

Washings must be prevented from entering surface water drains.

7. HANDLING AND STORAGE

HANDLING AND STORAGE: Read label carefully before use. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove personal protective equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Store the material in a well ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco product in the storage area. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material.

Wash thoroughly with soap and after handling.

OTHER PRECAUTIONS: Do not contaminate water, food, or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION:	Approved respirator
PROTECTIVE GLOVES:	Rubber gloves
EYE PROTECTION:	Safety goggles or face shield.
INDUSTRIAL HYGIENE:	Adequate ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Light brown liquid
RELATIVE DENSITY:	1.05
pH:	4.22
STORAGE STABILITY:	Qualified

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:	flame, fire and high temperature.
PRODUCTS TO AVOID:	incompatible with alkaline pesticides;
HAZARDOUS DECOMPOSITION PRODUCTS:	nitride, chloride, carbon dioxide and so on.
HAZARDOUS REACTION:	Not applicable

11. TOXICOLOGICAL INFORMATION

ORAL (ACUTE):	Rat >500mg/kg
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DERMAL (ACUTE):	Rat >2000mg/kg
INHALATION (ACUTE):	Rat = 1.167mg/L
SKIN AND EYE IRRITATION:	No irritant (rabbit)
SENSITIZATION:	Not a sensitizer (Guinea-pig)

12. ECOLOGICAL INFORMATION

Birds Acute oral LD50 for Japanese quail 31, bobwhite quail 152 mg/kg. Dietary LC50 (5 d) for bobwhite quail 2225, mallard ducks >5000 mg/kg. Fish LC50 (96 h) for golden orfe 237, rainbow trout 211 mg/l. Daphnia LC50 (48 h) 85 mg/l. Algae ErC50 (72 h) for Pseudokirchneriella subcapitata >100 mg/l. Bees Harmful to honeybees by direct contact, but no problems expected when not sprayed into flowering crop or when used as a seed treatment. Worms LC50 for Eisenia foetida 10.7 mg/kg dry soil.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Product disposal – Pesticide wastes may be acutely hazardous. Improper disposal is a violation of the law. Pesticide, mixtures, or equipment rinse water that cannot be chemically reprocessed must be disposed of according to applicable federal, state or local regulations. Contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest government office for guidance.

Container disposal – Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

14. TRANSPORT INFORMATION

Do not transport with food and feedstuffs.

Class: 9
UN NO.: 3082

15. OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.