

Material Safety Data Sheet

PROTHOR WSP

Emergency Phone 1-800-424-9300 (Chemtrec)

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PROTHOR WSP

CHEMICAL NAME: Imidacloprid

CHEMICAL FAMILY: Chloro-nicotinyl insecticide

COMPANY: Ensystem III, Inc.

ADDRESS: 2709 Breezewood Ave., Fayetteville, NC 28303

DAYTIME PHONE: 1-866-367-8467

2. COMPOSITION / INFORMATION ON INGREDIENTS

Imidacloprid 75.0% CAS# 138261-41-3

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Caution. Harmful if swallowed, inhaled or absorbed through the skin. Causes eye irritation. Avoid contact with skin, eyes and clothing. Avoid breathing dust or vapor.

PHYSICAL STATE: Solid Powder

ODOR: None

APPEARANCE: Light brown

ROUTES OF EXPOSURE: Ingestion, eye contact, skin contact, skin absorption, inhalation

IMMEDIATE EFFECTS

EYE: Causes eye irritation. Avoid contact with the eyes.

SKIN: Harmful if absorbed through skin. Avoid contact with skin and clothing.

INGESTION: Harmful if swallowed. Do not take internally.

INHALATION: Harmful if inhaled. Avoid breathing dust or spray mist.

CHRONIC OR LONG TERM DELAYED EFFECTS: May have target organ effects

4. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN: Take off contaminated clothing and shoes immediately. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Rinse out mouth and have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO MEDICAL DOCTOR: Treat symptomatically. There is no antidote.

5. FIRE FIGHTING MEASURES

FLASH POINT: N/A

EXTINGUISHING MEDIA: Water spray, Carbon dioxide, dry chemical powder or appropriate foam.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon dioxide, Hydrogen chloride gas, Nitrogen oxides.

FIRE FIGHTING PROCEDURES: Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated. Keep out of smoke. Fight fire from an upwind position. Cool closed containers exposed to fire with water spray. Dike area to prevent runoff and contamination of water sources. Equipment or materials involved in pesticide fires may become contaminated.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTION(S): Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section 8, "Exposure Controls/Personal Protection". Keep unprotected persons and animals out of the area.

METHOD FOR CLEANING UP: Do not walk through spilled material. Avoid generating dust. Use recommended protective equipment while carefully sweeping up or vacuuming spilled material. Place in covered container for reuse or disposal. Clean contaminated area. Do not allow material to enter streams, sewers, or other waterways. You may contact Ensystem III at 1-866-367-8467 for assistance if necessary. You may also contact Chemtrec at 1-800-424-9300 for assistance.

7. HANDLING AND STORAGE

USER EXPOSURE: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE PROCEDURES: Store in a cool, dry, well-ventilated and preferably locked storage area. Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal. Store in original containers only. Keep storage container tightly closed.

WORK/HYGENIC PROCEDURES: Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove and wash contaminated clothing before re-use. Before removing gloves clean them with soap and water. As soon as practical, wash thoroughly and change into clean clothing.

MIN/MAX STORAGE TEMPERATURES: Do not store or transport below 0°C/32°F. 30 day average temperature not to exceed 38°/100°F).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: General air replacement or dilution ventilation is sufficient for material handling and storage.

PERSONAL PROTECTIVE EQUIPMENT: Applicators and other handlers must wear long-sleeved shirt and long pants, chemical resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton and shoes plus socks (PPE). Follow manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS: Wash hands 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 PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

EXPOSURE LIMITS: May contain Sodium Aluminum Silicate CAS# 1344-00-9 ACGIH TWA 2 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light brown

PHYSICAL STATE: Powder

ODOR: None

WATER SOLUBILITY: Dispersible

10. STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID: Exposure to moisture.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products include carbon monoxide, hydrogen chloride (HCl), nitrogen oxides, hydrogen cyanide (hydrocyanic acid)

11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been conducted on this product as formulated. The non-acute information pertains to the active ingredient.

EYE EFFECTS: Mild eye irritation (rabbits)

DERMAL LD₅₀: >5000 mg/kg (rat)

ORAL LD₅₀: 410 mg/kg (rat)

INHALATION LC₅₀: >5323 mg/m³ (rat) as a dust for 4 hours

SKIN SENSITIZATION: No (guinea pig)

SKIN IRRITATION: No (rabbit)

ACUTE ORAL TOXICITY MALE RAT: LD50: 2,591 mg/kg

ACUTE ORAL TOXICITY FEMALE RAT: LD50: 1,858 mg/kg

ACUTE DERMAL TOXICITY MALE/FEMALE RAT: LD50: > 2,000 mg/kg

ACUTE INHALATION TOXICITY MALE RAT: LC50: 4-hr exposure to liquid aerosol: 2.65 mg/l (actual)

CARCINOGENICITY:

IARC: Not listed

NTP: Not listed

OSHA: Not listed

REPRODUCTIVE TOXICITY: In a two generation reproduction study in rats, imidacloprid was not a primary reproductive toxicant. Offspring exhibited reduced body weights at the high dose and in conjunction with maternal toxicity.

DEVELOPMENTAL TOXICITY: In developmental toxicity studies in rats and rabbits, there was no evidence of embryonic or teratogenic potential for imidacloprid. In both species, developmental effects were observed only at high doses and in conjunction with maternal toxicity.

NEUROTOXICITY: In acute and subchronic neurotoxicity screening studies in rats, imidacloprid produced slight neurobehavioral effects in each study at the highest dose tested. There were no correlating morphological changes observed in the neural tissues.

MUTAGENICITY: The imidacloprid mutagenicity studies, taken collectively, demonstrate that the active ingredient is not genotoxic or mutagenic.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL PRECAUTIONS: This pesticide is highly toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

The properties and characteristics of this chemical are similar to those of agrochemicals that have been detected in groundwater. Using this chemical in areas where the soil is permeable, and particularly where the water table is shallow.

13. DISPOSAL CONSIDERATIONS

GENERAL DISPOSAL GUIDANCE: Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of at an approved waste facility in accordance with applicable Federal, state and local laws and regulations.

CONTAINER DISPOSAL: Follow advice on product label and/or leaflet.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION: Not regulated.

FREIGHT CLASSIFICATION: Insecticides or Fungicides, N.O.I., other than poison

15. REGULATORY INFORMATION

CERCLA REPORTABLE QUANTITY: No components listed.

SARA Title III – section 311/312 Hazard Categories: Immediate health hazard

Sara Title III – section 313 – Toxic Chemical Release Reporting: None

16. OTHER INFORMATION

NFPA 704: (National Fire Protection Association)

Health - 1 Flammability - 1 Reactivity - 1 Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Revised 01/07