

# Material Safety Data Sheet

## PROTHOR SC 2

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

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** PROTHOR SC 2

**CHEMICAL NAME:** Imidacloprid

**CHEMICAL FAMILY:** Chloro-nicotinyl insecticide

**COMPANY:** Ensysyex IV, Inc.

**ADDRESS:** 2713 Breezewood Ave., Fayetteville, NC 28303

**DAYTIME PHONE:** 1-866-367-8467

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Imidacloprid 21.4% CAS# 138261-41-3

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Caution. Harmful if swallowed or absorbed through the skin.

**PHYSICAL STATE:** Viscous liquid suspension

**ODOR:** Mild

**APPEARANCE:** Off white to light brown

**ROUTES OF EXPOSURE:** Inhalation, skin contact, skin absorption

#### IMMEDIATE EFFECTS

**EYE:** May cause eye irritation. Eye injury may persist for several days.

**SKIN:** Harmful if absorbed through skin. No skin irritation. Non-sensitizing.

**INGESTION:** Harmful if swallowed. Do not take internally.

**INHALATION:** Harmful if inhaled. Avoid breathing spray mist.

**POTENTIAL ENVIRONMENTAL EFFECTS:** Highly toxic to bees. Extremely toxic to aquatic and estuarine invertebrates.

### 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:** >93°C / > 199 °F

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

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride gas, Nitrogen oxides.

**SUITABLE EXTINGUISHING MEDIA:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**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:** Dike area to prevent runoff. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Collect and transfer the product into a properly labeled and tightly closed container. Do not allow material to enter streams, sewers, or other waterways. You may contact Ensysyex 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

**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:** 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 hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

**MIN/MAX STORAGE TEMPERATURES:** Do not store or transport above 38°C/100°F. 30 day average temperature not to exceed the recommended maximum.

### 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. When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

**USER SAFETY RECOMMENDATIONS:** Wash hands before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. 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:** Glycerine CAS # 56-81-5 ACGIH TWA 10 mg/m3  
Form of exposure - Mist

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Off-white to light brown

**PHYSICAL STATE:** Viscous liquid suspension

**ODOR:** Mild

**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 hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, nitrogen oxides (NO<sub>x</sub>).

## 11. TOXICOLOGICAL INFORMATION

The non-acute information pertains to the active ingredient.

**EYE EFFECTS:** Mild eye irritation (rabbits)

**DERMAL MALE/FEMALE RAT COMBINED:** LD50 > 2000 mg/kg

**SKIN SENSITIZATION:** No (guinea pig)

**SKIN IRRITATION:** No (rabbit)

**ACUTE ORAL TOXICITY MALE RAT:** LD50 > 4,870 mg/kg

**ACUTE ORAL TOXICITY FEMALE RAT:** LD50 > 4,143 mg/kg

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

**ACUTE INHALATION TOXICITY MALE/FEMALE COMBINED RAT:** LC50 - 4-hr exposure to liquid aerosol: 5.33 mg/l (actual). LC50: 1-hr exposure to liquid aerosol: 20 mg/l (Extrapolated from 4 hr. LC50.)

**CHRONIC TOXICITY:** Imidacloprid caused thyroid and/or liver effects in chronic dietary studies in rats and dogs.

**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.

## 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

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