

# MATERIAL SAFETY DATA SHEET



Emergency Phone: 800-992-5994  
Dow AgroSciences LLC  
Indianapolis, IN 46268

Effective Date: 5/27/03  
Product Code: 51794  
MSDS: 005476

## RECRUIT\* II TERMITE BAIT

### 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT:** Recruit\* II Termite Bait

#### COMPANY IDENTIFICATION:

Dow AgroSciences  
9330 Zionsville Road  
Indianapolis, IN 46268-1189

### 2. COMPOSITION/INFORMATION ON INGREDIENTS:

Hexaflumuron	CAS# 086479-06-3	0.5%
Other Ingredients, Total, Including Cellulose	CAS# 009004-34-6	99.5%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

### 3. HAZARDOUS IDENTIFICATIONS:

#### EMERGENCY OVERVIEW

White solid. Odorless. May cause eye irritation or corneal injury. LD<sub>50</sub> for skin absorption in rats and rabbits is >2000 mg/kg. The oral LD<sub>50</sub> for rats, mice and rabbits is >5000 mg/kg. The LC<sub>50</sub> for rats is >7.0 mg/L for 4 hours. Toxic to avian and aquatic organisms.

**EMERGENCY PHONE NUMBER:** 800-992-5994

**POTENTIAL HEALTH EFFECTS:** This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

**EYE:** Solid or dust may cause irritation or corneal injury due to mechanical action.

**SKIN:** Essentially non-irritating to the skin. Prolonged skin contact is unlikely to result in absorption of harmful amounts. For the active ingredient: the LD<sub>50</sub> for skin absorption in rabbits and rats is >2000 mg/kg. Did not cause allergic skin reactions when tested in guinea pigs.

**INGESTION:** Very low toxicity if swallowed. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. For the active ingredient: the oral LD<sub>50</sub> for rats, mice and rabbits is >5000 mg/kg.

**INHALATION:** No adverse effects are anticipated from inhalation. The LC<sub>50</sub> for rats is >7.0 mg/L for 4 hours.

**SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:** No relevant information found.

**CANCER INFORMATION:** The active ingredient did not cause cancer in laboratory animals.

**TERATOLOGY (BIRTH DEFECTS):** The active ingredient did not cause birth defects in laboratory animals.

**REPRODUCTIVE EFFECTS:** The active ingredient, in animal studies, did not interfere with reproduction.

### 4. FIRST AID:

**EYES:** Flush eyes with plenty of water; remove contact lenses after the first 1-2 minutes then continue flushing for several minutes. Only mechanical effects expected.

**SKIN:** Wash skin with plenty of water.

**INGESTION:** If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

**INHALATION:** No emergency medical treatment necessary.

**NOTE TO PHYSICIAN:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

### 5. FIRE FIGHTING MEASURES:

**FLASH POINT:** Not applicable  
**METHOD USED:** Not applicable

#### FLAMMABLE LIMITS

LFL: Not applicable  
UFL: Not applicable

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**EXTINGUISHING MEDIA:** If product is involved in fire, use water fog, CO<sub>2</sub>, or dry chemical.

**FIRE AND EXPLOSION HAZARDS:** Toxic, irritating fumes may be formed if product is involved in fire.

**FIRE-FIGHTING EQUIPMENT:** Use positive-pressure, self-contained breathing apparatus and full protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES:

**ACTION TO TAKE FOR SPILLS:** Sweep up wastes and place into suitable container for disposal. Report large spills to Dow AgroSciences at 800-992-5994.

### 7. HANDLING AND STORAGE:

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in original container in a dry storage area. Do not store above 122°F (50°C) for extended periods of time. Do not contaminate water, food, or feed by storage or disposal. Do not tamper with product.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

These precautions are suggested for conditions where a potential for exposure exists. Emergency conditions may require additional precautions.

**EXPOSURE GUIDELINE:** None established.

**ENGINEERING CONTROLS:** Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

### RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

**RESPIRATORY PROTECTION:** In dusty atmospheres, use a NIOSH approved particulate respirator.

**SKIN PROTECTION:** Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur.

**EYE/FACE PROTECTION:** Use safety glasses. If there is a potential for exposure to particles, which could cause eye discomfort, wear chemical goggles.

**APPLICATORS AND ALL OTHER HANDLERS:** Refer to the product label for personal protective clothing and equipment.

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

**BOILING POINT:** Not applicable  
**VAPOR PRESSURE:** Expected to be low  
**VAPOR DENSITY:** Not determined  
**SOLUBILITY IN WATER:** Not applicable  
**SPECIFIC GRAVITY:** 12-20 lb./cu ft  
**APPEARANCE:** White solid  
**ODOR:** Essentially odorless

### 10. STABILITY AND REACTIVITY:

**STABILITY:** (CONDITIONS TO AVOID) Product is stable at room temperature. Avoid excessive heat; do not store above 122°F (50°C) for extended periods of time.

**INCOMPATIBILITY:** (SPECIFIC MATERIALS TO AVOID) Strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** If product is involved in fire, small amounts of hydrogen chloride and hydrogen fluoride may be formed.

**HAZARDOUS POLYMERIZATION:** Not known to occur.

### 11. TOXICOLOGICAL INFORMATION:

**MUTAGENICITY:** For the components tested in-vitro and animal mutagenicity studies were negative.

### 12. ECOLOGICAL INFORMATION:

#### ENVIRONMENTAL FATE:

#### MOVEMENT & PARTITIONING:

Based largely or completely on information for the active ingredient.  
Bioconcentration potential is high (BCF is >3000 or Log Pow between 5 and 7).  
Expected to be relatively immobile in soil (Koc is >5000).

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### DEGRADATION & PERSISTENCE:

Based largely or completely on information for the active ingredient.

Material is readily biodegradable.

Passes OECD test for ready biodegradability.

### ECOTOXICOLOGY:

Based largely or completely on information for the active ingredient.

Material is very highly toxic to aquatic invertebrates on an acute basis ( $LC_{50}/EC_{50}$  is  $<0.1$  mg/L).

Material is practically non-toxic to birds on an acute basis ( $LD_{50}$  is  $>2000$  mg/kg).

Material is slightly toxic to birds on a dietary basis ( $LC_{50}$  between 1001 and 5000 ppm).

### 13. DISPOSAL CONSIDERATIONS:

**DISPOSAL METHOD:** Dispose of waste by incineration in accordance with all local, state, and federal requirements for disposal. Used devices that are damaged or no longer needed should be stored until they can be collected by a representative of Dow AgroSciences for disposal or recycling. Contact Dow AgroSciences for further information.

### 14. TRANSPORT INFORMATION:

#### U.S. DEPARTMENT OF TRANSPORTATION INFORMATION:

This product is not regulated as a Hazardous Material when shipped by air, land, or vessel.

### 15. REGULATORY INFORMATION:

**NOTICE:** The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

#### U.S. REGULATIONS

**SARA 313 INFORMATION:** To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

**SARA HAZARD CATEGORY:** This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard  
A delayed health hazard

**TOXIC SUBSTANCES CONTROL ACT (TSCA):** All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

**STATE RIGHT-TO-KNOW:** The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

CHEMICAL NAME	CAS NUMBER	LIST
Cellulose	009004-34-6	PA1

PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%).

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**OSHA HAZARD COMMUNICATION STANDARD:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

#### RATINGS:

Health	1
Flammability	1
Reactivity	0

**COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT(CERCLA, or SUPERFUND):** To the best of our knowledge, this product contains no chemical subject to reporting under CERCLA.

### 16. OTHER INFORMATION:

**MSDS STATUS:** Revised Sections: 14  
Reference: DR-0353-1906  
Replaces MSDS dated: 5/1/02  
Document Code: D03-026-773  
Replaces Document Code: D03-026-772

The Information Herein Is Given In Good Faith, But No Warranty, Express or Implied, Is Made. Consult Dow AgroSciences for Further Information.