

MATERIAL SAFETY DATA SHEET



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

Effective Date: 8/25/03
Product Code: 84235
MSDS: 007233

RECRUIT* III-AG TERMITE BAIT

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Recruit* III-AG Termite Bait

COMPANY IDENTIFICATION:

Dow AgroSciences
9330 Zionsville Road
Indianapolis, IN 46268-1189

2. COMPOSITION/INFORMATION ON INGREDIENTS:

Noviflumuron: N-(((3,5-dichloro-2-fluoro-4-(1,1,2,3,3,3-hexafluoropropoxy)phenyl)amino carbonyl)-2,6-difluorobenzamide CAS # 121451-02-3 0.5%
Inert Ingredients, Total, Including Cellulose 99.5%
CAS # 009004-34-6

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 odorless solid. May cause eye irritation or corneal injury. Oral LD₅₀ for rats is >3160 mg/kg.

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: Brief contact is essentially non-irritating to skin. Prolonged skin contact is unlikely to result in absorption of harmful amounts. The dermal LD₅₀ has not been determined.

INGESTION: Low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. The oral LD₅₀ for rats is expected to be >3160 mg/kg.

INHALATION: No adverse effects are anticipated from single exposure to dust.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

CANCER INFORMATION: The major component(s) did not cause cancer in laboratory animals.

TERATOLOGY (BIRTH DEFECTS): The major component(s) did not cause birth defects or any other fetal effects in laboratory animals.

REPRODUCTIVE EFFECTS: In animal studies, cellulose has been shown to interfere with fertility and reproduction as a result of nutritional deficiencies associated with extremely high dietary concentrations of cellulose.

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: Move person to fresh air; if effects occur, consult a physician.

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

EXTINGUISHING MEDIA: If product is involved in fire, use water fog, CO₂, or dry chemical.

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

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

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

6. ACCIDENTAL RELEASE MEASURES:

ACTION TO TAKE FOR SPILLS: Sweep up small spills and place in 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: Keep out of reach of children. Do not swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating. Store in original container in a dry storage area. 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 the potential for exposure exists. Emergency conditions may require additional precautions.

EXPOSURE GUIDELINE: Cellulose: ACGIH TLV is 10 mg/M³. OSHA PEL is 15 mg/M³ total dust, 5 mg/M³ respirable.

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. 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.

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: Not determined
APPEARANCE: White solid
ODOR: Essentially odorless

10. STABILITY AND REACTIVITY:

STABILITY: (CONDITIONS TO AVOID) Product is stable at room temperature.

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

HAZARDOUS DECOMPOSITION PRODUCTS: If product is involved in fire, hydrogen halides, nitrogen oxides, carbon dioxide and carbon monoxide may be formed.

HAZARDOUS POLYMERIZATION: Not known to occur.

11. TOXICOLOGICAL INFORMATION:

MUTAGENICITY: For methylcellulose, in-vitro and animal mutagenicity studies were negative.

12. ECOLOGICAL INFORMATION:

ENVIRONMENTAL FATE:

MOVEMENT & PARTITIONING:

Based largely or completely on data for the major component(s).
No bioconcentration is expected because of the relatively high molecular weight (MW is >1000).
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 data for the major component(s).
Degradation is expected in the soil environment.
Based largely or completely on information for the active ingredient.
No relevant information found.

ECOTOXICOLOGY:

Based largely or completely on data for the major component(s).
Not expected to be acutely toxic to aquatic organisms.
Based largely or completely on information for the active ingredient.
Material is very highly toxic to aquatic invertebrates on an acute basis (LC_{50} or 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} is 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%).

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

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**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-0367-1623
Replaces MSDS Dated: 11/13/02
Document Code: D03-192-002
Replaces Document Code: D03-192-001

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