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MATERIAL SAFETY DATA SHEET NO. 471

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: FIRST CHOICE CARBARYL CUTWORM BAIT
EPA Registration number: 11656-21
Chemical name of active ingredient(s): carbaryl: 1-naphthyl N-methylcarbamate
Chemical Class: Insecticide (Carbamate)
Registrant/Manufacturer: Western Farm Service, Inc.
P.O. Box 1168
Fresno, CA 93715
Telephone number: (559) 436-2800

For fire, spill, and/or leak emergencies, contact: CHEMTREC 1-800-424-9300
For medical emergencies and health and safety inquiries, contact: National Poison Control Center
1-800-222-1222

2. COMPOSITION/INFORMATION ON INGREDIENTS

Information on hazardous ingredients *

| MATERIAL | C.A.S. No. | % by Wt. | ACGIH/TLV | OSHA/PEL |
|-------------------|------------|----------|---------------------|---------------------|
| Carbaryl | 63-25-2 | 5.0 | 5 mg/m ³ | 5 mg/m ³ |
| Propylene glycol | 57-55-6 | 4.0 | 3 mg/m ³ | 5 mg/m ³ |
| Petroleum Oil | 68815-10-1 | 2.0 | Not established | Not established |
| Amyl Acetate | 628-63-7 | 0.25 | 100 ppm | 100 ppm |
| Inert Ingredients | N/A | 88.75 | N/A | N/A |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: The following data are for the active ingredient carbaryl.

SYMPTOMS OF ACUTE EXPOSURE: This product causes reversible cholinesterase inhibition. Repeated overexposure may cause more severe cholinesterase inhibition with more pronounced signs and symptoms. May lead to rapid onset of nausea, vomiting, diarrhea, abdominal pain, involuntary shaking, excess salivation, pinpoint pupils, blurred vision, profuse sweating, temporary paralysis, respiratory depression, and convulsions.

PRIMARY ROUTES OF EXPOSURE: Harmful if ingested, inhaled, absorbed into skin or if it comes into contact with the eyes.

CHRONIC or DELAYED LONG-TERM: This product does not contain any ingredients designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

MEDICAL CONDITIONS LIKELY TO BE AGGRAVATED BY EXPOSURE: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: When decomposed, carbaryl produces NO_x, CO, and/or CO₂

UNUSUAL FIRE, EXPLOSION, AND REACTIVITY HAZARDS: None known.

4. FIRST AID

IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. 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. Do not give anything by mouth to an unconscious person.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 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.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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

NOTES TO PHYSICIAN: Carbaryl is a moderate, reversible cholinesterase inhibitor. Atropine is antidotal.

MEDICAL CONDITION LIKELY TO BE AGGRAVATED BY EXPOSURE: None known.

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION: None

FLASH POINT (Test method): 380° F, TOC (carbaryl technical)

FLAMMABLE LIMITS (% in air): Not applicable

AUTOIGNITION TEMPERATURE: Not available

UNUSUAL FIRE, EXPLOSION, AND REACTIVITY HAZARDS: None known

IN CASE OF FIRE: Use water spray, foam, CO₂, or dry chemical. Firefighters should wear complete protective clothing, including self-contained breathing apparatus. Thermal decomposition may produce nitrogen oxides. Fight fire from upwind to avoid fumes.

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR LEAK: Wear appropriate gear for the situation. See Personal Protective Equipment Information in Section 8. For small spills cover with an absorbent material such as pet litter. Sweep up and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up, and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

7. HANDLING AND STORAGE

HANDLING: Avoid direct or prolonged contact with skin and eyes. Avoid breathing dusts. Do not ingest. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

STORAGE: Store the material in a well-ventilated, secure area out of the reach of children and domestic animals. Keep in a dry, cool place. Do not store food, beverages, or tobacco products in the storage area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation, and packaging of the product. For commercial applications and on-farm applications, consult the product label.

INGESTION: Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

EYE CONTACT: Avoid eye contact. Wear safety glasses with side shields or chemical goggles.

SKIN CONTACT: Avoid skin contact. Skin contact should be prevented through use of suitable protective clothing, gloves and footwear, selected with regard of use conditions and exposure potential.

RESPIRATORY PROTECTION: Avoid breathing vapor or mist. When respirators are required, wear a NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White to light brown granules

ODOR: Mild odor

MELTING POINT: Not available

SPECIFIC GRAVITY/DENSITY: Not available

pH: Not established

SOLUBILITY IN WATER: Insoluble

VAPOR PRESSURE: Not available

10. STABILITY AND REACTIVITY

STABILITY: Stable under standard conditions.

CONDITIONS TO AVOID: Strong acids, oxidizers and bases

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition: oxides of nitrogen and carbon and trace amounts of methyl isocyanate.

11. TOXICOLOGICAL INFORMATION

ORAL ACUTE TOXICITY: LD₅₀ (rat) 281 mg/kg

DERMAL ACUTE TOXICITY: LD₅₀ (rabbit) > 2000 mg/kg

INHALATION ACUTE TOXICITY: LC₅₀ (rat) No test data

EYE CONTACT: Rabbit: Slightly irritating

SKIN CONTACT: Rabbit: Minimally irritating

SENSITIZATION: None

CHRONIC/SUBCHRONIC TOXICITY STUDIES: Carbaryl has been shown to cause tumors in laboratory animals in lifetime feeding studies.

CARCINOGENICITY: None listed in OSHA, NTP, IARC or ACGIH

12. ECOLOGICAL INFORMATION

SUMMARY OF EFFECTS: Carbaryl: Practically nontoxic to birds and slightly toxic to aquatic invertebrates and moderately toxic to fish

Eco-Acute Toxicity:

Carbaryl: Rainbow Trout 96-hour LC50 1950 ug/L

Bluegill Sunfish 96-hour LC50 6760 ug/L

Bobwhite 8-day Dietary LC50 >5,000 mg/kg

Mallard 8-day Dietary LC50 >5,000 ppm

13. DISPOSAL CONSIDERATIONS:

PESTICIDE DISPOSAL: Do not reuse product containers. Do not contaminate food, feed, or water by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. In case of minor spills, follow all precautions indicated above and clean up immediately. Sweep up and dispose of wastes and broken or empty containers in a landfill approved for pesticide use. For information concerning the proper disposal of pesticide-related wastes, contact your State Environmental Department, State Department of Agriculture, or the Regional Office of the Environmental Protection Agency for your area.

CONTAINER DISPOSAL: Do not reuse container. Place in trash or offer for recycling. Incinerate contaminated solids in accordance with local, state, and federal regulations. (See 40 CFR 268)

CHARACTERISTIC WASTE: Not applicable.

LISTED WASTE: Not applicable.

14. TRANSPORT INFORMATION:

DOT CLASSIFICATION: Not regulated

B/L: Agricultural Insecticide, NOI

INTERNATIONAL TRANSPORTATION: IATA: Carbamate Pesticide, Solid, Toxic, (carbaryl), 6.1, UN 2757, PG III, Marine Pollutant, EmS 6.1-04, MFAG 505, NAERG# 151

15. REGULATORY INFORMATION:

SARA TITLE III CLASSIFICATION:

SECTION 302-304: Not applicable

SECTION 311/312: Immediate Acute Health Hazard

SECTION 313 (chemicals): Carbaryl

Proposition 65: Not applicable

CERCLA Reportable Quantity (RQ): 2,000 lbs. of product (100 lbs. of carbaryl)

RCRA CLASSIFICATION: RCRA Code U279.

TSCA STATUS: Exempt, subject to FIFRA.

16. OTHER INFORMATION:**NFPA HAZARD RATINGS**

| | | | | |
|---------------|---|---|----------|----------|
| HEALTH: | 1 | 0 | LEAST | |
| FLAMMABILITY: | 0 | 1 | SLIGHT | 3 HIGH |
| REACTIVITY: | 0 | 2 | MODERATE | 4 SEVERE |

MSDS ISSUED: 11/29/04

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