1. IDENTIFICATION

Date of issue: May 2015

Product Name: Mole Cricket Bait

Recommended Use: Insecticide

EPA Reg. No.: 829-285

CAS No.: 63-25-2

Synonyms: 1-naphthyl methylcarbamate

Company: Southern Agricultural Insecticides, Inc

P.O. Box 218
Palmetto, FL 34220

(941) 722-3285 Chemtrec (800) 424-9300 (24 hour transportation spill response)

This product is an EPA FIFRA registered pesticide. Some of the classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

2. HAZARD(S) IDENTIFICATION


Category 4  Acute toxicity - oral
Category 4  Acute toxicity - inhalation
Category 2B  Eye irritation
Category 1  Specific target organ toxicity (single exposure)
Category 2  Specific target organ toxicity (repeated exposure)
Category 1  Aquatic acute toxicity
Category 1  Aquatic chronic toxicity

GHS label elements

Label elements:

Hazard pictograms:

Signal word  Danger

Hazard statements  Harmful if swallowed
Harmful if inhaled
Causes eye irritation
Causes damage to nervous system
May cause damage to nervous system through prolonged or repeated exposure
Very toxic to aquatic life
Very toxic to aquatic life with long lasting effects

Precautionary statements

Prevention  Wash thoroughly after handling
Avoid breathing dust/fume/gas/mist/vapors/spray
Wear eye protection/face protection (see Section 8)
Wash face and hands thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in well-ventilated area
Prevent from entering into sewers, waterways and/or groundwater. See Section 12, Ecological Information
Response

If swallowed: Immediately call a poison control center/doctor. Rinse mouth.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. 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.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If exposed: Call poison center/doctor. Specific treatment see Note to Physician, Section 4.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Do not contaminate water, food, or feed by storage or disposal.

Disposal

Disposal of contents/container must be in accordance with your local or area regulatory authorities. Do not reuse this container.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>By Wt.</th>
<th>OSHA PEL:</th>
<th>ACGIH TLV:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Ingredient:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbaryl (1-naphthyl N-methylcarbamate)</td>
<td>5.0</td>
<td>N/Av</td>
<td>5 mg/m3</td>
</tr>
<tr>
<td>Inert Ingredients:</td>
<td>95.0</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General information In case of persisting adverse effects consult a physician. Never give anything by mouth to an unconscious person or a person with cramps.

Eye Contact: 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 eyes for at least 10 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.
If Swallowed: Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water then 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. Have product label with you when calling a poison control center or doctor.
Skin Contact: Immediately flush skin with water while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Destroy contaminated leather items such as shoes, belts, and watchbands.
If Inhaled: 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.
Note to Physician: This product contains a cholinesterase inhibitor affecting the central and peripheral nervous systems and producing respiratory depression. Decontamination procedures such as whole body washing, gastric lavage and administration of activated charcoal are often required. If symptoms are present, administer atropine sulfate in large doses as soon as possible. Repeat at 5 to 10 minute intervals until signs of atropinization appear. Maintain full atropinization until all organophosphate is metabolized. Pralidoxime chloride (2-PAM) may be administered as an adjunct to, but not a substitute for atropine. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Very close supervision of the patient is indicated for at least 48 hours, depending on the severity of poisoning.

5. FIRE-FIGHTING MEASURES

Specific hazards: Thermal decomposition can lead to release of irritating gases and vapors.

Flammability classification (OSHA 29 CFR 1910.1200): N/A
Flash point: NA
Lower flammable limit (by volume): N/Av
Upper flammable limit (by volume): N/Av

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Evacuate the area and fight the fire from upwind at a safe distance to avoid hazardous smoke or decomposition products. Dike and collect fire-extinguishing water to prevent environmental damage and excessive waste runoff.
Firefighting media: Use carbon dioxide or dry chemical for small fires. Use alcohol foam, polymer foam or water spray for large fires. Do not use water jet, as this may spread burning material. Minimize the use of water to avoid environmental contamination. Contain all runoff.

Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Use full face shield and operate in positive pressure mode. Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

Hazardous Combustion Products: Carbon oxides, nitrogen oxides, trace amounts of methyl isocyanate, irritating fumes and smoke.

<table>
<thead>
<tr>
<th>(NFPA)</th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken if Material is Released or Spilled:
Sweep as much material as possible, keeping dust to a minimum and place in an approved chemical waste container. Wash the spill area with water containing a strong detergent, absorb with earth, sand or absorbent material and sweep up and place in approved chemical waste container. See Section 13, Disposal Considerations, for additional information.

Personal Precautions:
Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

7. HANDLING AND STORAGE
KEEP OUT OF REACH OF CHILDREN

Precautions for Safe Handling:
Handling: Avoid container breakage. Do not contaminate water sources when disposing of equipment wash waters. Keep out of lakes, streams or ponds. Wash thoroughly after handling. Avoid breathing dust. Use with adequate ventilation. Keep away from heat, sparks and flame. Do not eat, drink or smoke when using this product.

Conditions for Safe Storage, Including any Incompatibilities:
Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Do not contaminate water, food, or feed by storage or disposal.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: TLV Carbaryl 5 mg/m³

Personal Protection:
Eye/Face Protection: Wear safety glasses with side shields or chemical splash goggles to prevent dust from entering the eyes. If using a full face shield, always use safety glasses or goggles along with the face shield to ensure adequate protection of the eyes.

Skin Protection: Wear long-sleeved shirt and long pants and shoes plus socks. Safety shower should be located in immediate work area. Remove contaminated clothing immediately after handling this product, wash skin area with soap and water, and launder clothing before reuse or dispose of properly. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and disposed of properly.

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Neoprene, Nitrile/butadiene rubber ("nitrile" or "NBR") or Polyvinyl chloride ("PVC" or "vinyl").
Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. When handling in enclosed areas, when large quantities of dusts are generated or prolonged exposure is possible in excess of the TLV, use a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHAINIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHAINIOSH approval number prefixTC-14G).

**Ingestion:** Avoid ingestion of even very small amounts; do not consume or store food or tobacco in the work area; wash hands and face before smoking or eating.

**Engineering Controls:**
**Ventilation:** When handling this product proper ventilation is required to maintain exposure below the TLV. Ventilate all transport vehicles prior to unloading. Facilities storing or utilizing this material should be equipped with and eyewash facility and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Dry Granules</td>
</tr>
<tr>
<td>Color</td>
<td>Brown</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight phenolic odor</td>
</tr>
<tr>
<td>Flash Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure (mmHg)</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density (air = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Bulk Density (H₂O = 1)</td>
<td>41.8 lbs/ft³</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in water (wt.)</td>
<td>40 ppm @30°C</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N/A</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability/Instability</td>
<td>Thermally stable at typical use temperatures and in closed containers.</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Avoid heat of open flame. Avoid high temperatures above 130°F (54.4 °C),</td>
</tr>
<tr>
<td>Incompatible Materials</td>
<td>Avoid contact with: Strong acids. Strong bases.</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Will not occur</td>
</tr>
<tr>
<td>Thermal Decomposition</td>
<td>Decomposition products can include: Carbon oxides, nitrogen oxides, trace amounts of methyl isocyanate.</td>
</tr>
</tbody>
</table>

11. TOXICOLOGICAL INFORMATION

Acute toxicity data from studies conducted on a similar, but not identical, granular formulation containing a slightly higher percentage of active ingredient carbaryl. The non-acute information pertains to technical grade carbaryl.

**Acute Toxicity**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD₅₀, (rat): mg/kg</th>
<th>LC₅₀, (4h), (rat): mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>3310</td>
<td>4.9</td>
</tr>
<tr>
<td>Dermal</td>
<td>&gt;2,000</td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eye Irritation (rabbit)</td>
<td>Mild irritation.</td>
<td></td>
</tr>
<tr>
<td>Skin Irritation (rabbit)</td>
<td>No irritation.</td>
<td></td>
</tr>
<tr>
<td>Sensitization Skin</td>
<td>Non-sensitizer (Guinea Pigs).</td>
<td></td>
</tr>
</tbody>
</table>

**Chronic Toxicity (Carbaryl):**

Reversible cholinesterase inhibition occurred in chronic toxicity studies in rates and dogs. The principal organs affected from high doses of carbaryl included urinary bladder, thyroid, kidneys and liver.

**Carcinogenicity (Carbaryl):**

Listed as Likely to be carcinogenic in humans by EPA. Not listed as carcinogenic by ACGIH, NTP, IARC or OSHA.

Teratogenicity, mutagenicity, and other reproductive effects (Carbaryl): None known.
12. ECOLOGICAL INFORMATION
Based on active ingredient Carbaryl.

Environmental Fate: Not persistent in soil - quickly degrades in aerobic soil, more slowly in anaerobic soil. Degraded in
soil through hydrolysis, photolysis and by microorganisms.

Ecotoxicity: Moderate to highly toxic to fish. Extremely toxic to aquatic and estuarine invertebrates. Highly
toxic to bees.

Aquatic Toxicity: Rainbow Trout: 96 hour LC50: (4.3 mg/L)
Bluegill 96 hour LC50: (6.76 mg/L)
Daphnia magna 48 hour EC50: (0.00067 mg/L)

Bees:
LC50: (1.54 - 26.5 j.lg/bee)

Bird Toxicity: Mallard Duck 8-day LD50: > 5000 mg/kg
Bobwhite Quail 8-day LD50: > 5000 mg/kg

13. DISPOSAL CONSIDERATIONS
Disposal of Wastes: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of
spilled material and runoff and contact with waterways, drains, and sewers. Disposal of this product, solutions and any
by-products should at all times comply with the requirements of environmental protection and waste disposal legislation
and any regional local authority requirements.

Contaminated Packaging: Do not reuse container. Disposal should be in accordance with applicable regional, national
and local laws and regulations.

14. TRANSPORT INFORMATION
DOT NAFTA: Not regulated

IMDG: UN-3077, Environmentally Hazardous Substance, Solid, N.O.S., (Carbaryl), 9, PG-III, Marine Pollutant
This information is not intended to convey all specific regulatory or operational requirements/information
relating to this product. Additional transportation system information can be obtained through an
authorized sales or customer service representative. It is the responsibility of the transporting
organization to follow all applicable laws, regulations and rules relating to the transportation of the
material

15. REGULATORY INFORMATION
OSHA Hazard Communication Standard:
This product is a "Hazardous Chemical" as defined by the OSHA Hazard

EPA FIFRA INFORMATION: This chemical is a pesticide product registered by the United States Environmental
Protection Agency and is subject to certain labeling requirements
under federal pesticide law. These requirements differ from the classification criteria and
hazard information required for safety data sheets (SDS), and for workplace labels of
non-pesticide chemical. The hazard information required on the pesticide label is
listed out below. The pesticide label also includes other important information, including
directions for use.

EPA/CERCLA Reportable Quantity: 100 lbs (2000 lbs of product)

SARA/TITLE III: Sec 302: Extremely Hazardous Substance Notification: This material is not known to contain any
Extremely Hazardous Substances.

Sec. 311/312. Hazard Categories: Immediate health hazard Chronic health hazard

Section 313 Toxic Chemical(s): Carbaryl (CAS 63-25-2)

RCA Waste Code: U279

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986): This product is not listed.

Toxic Substances Control Act (TSCA): All components of this product are on the TSCA Inventory or are exempt from
TSCA Inventory requirements under 40 CFR 720.30

16. OTHER INFORMATION
The information above is believed to be accurate and represents the best information currently available to us.
However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such
information, and we assume no liability resulting from its use. Users should make their on investigations to determine
the suitability of the information for their particular purposes. In no event shall Southern Agricultural Insecticides, Inc. be li-
able for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential
or exemplary damages, howsoever arising, even if Southern Agricultural Insecticides, Inc has been advised of the possibility
of such damages.