SECTION I
Trade Name: Counter® 15G systemic insecticide nematicide LOCK’n LOAD®
Chemical Name: S-[[1,1-dimethylethyl]thio[methyl] O,O-diethyl phosphorodithioate
Synonyms: Terbufos, AC 92,100
Formula: C(9) H(21) O(2) P S(3)

SECTION II - INGREDIENTS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAS NO.</th>
<th>%</th>
<th>PEL/TLV - SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terbufos</td>
<td>13071-79-9</td>
<td>15.0</td>
<td>Vapor and aerosol, inhalable fraction TLV-TWA 0.01 mg/m3 ACGIH</td>
</tr>
<tr>
<td>Inerts</td>
<td>N/A</td>
<td>85.0</td>
<td>None established</td>
</tr>
</tbody>
</table>

This formulation may contain more than 0.1% crystalline silica.

SARA Title III Section 313: Not listed

SECTION III - PHYSICAL DATA

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILING/MELTING POINT@760mm Hg</td>
<td>N/D</td>
</tr>
<tr>
<td>pH</td>
<td>4 - 7 (dependent on carrier)</td>
</tr>
<tr>
<td>VAPOR PRESSURE mmHg @ 20ºC</td>
<td>1.8 x 10(-4)@25ºC</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY OR BULK DENSITY</td>
<td>43 - 58 lb/gal</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>Negligible</td>
</tr>
<tr>
<td>APPEARANCE</td>
<td>Brown to gray granule</td>
</tr>
<tr>
<td>ODOR</td>
<td>Mercaptan-like</td>
</tr>
<tr>
<td>INTENSITY</td>
<td></td>
</tr>
</tbody>
</table>

SECTION IV - FIRE AND EXPLOSION DATA

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA 704 HAZARD CODES</td>
<td></td>
</tr>
<tr>
<td>HEALTH</td>
<td>4</td>
</tr>
<tr>
<td>FLAMMABLE</td>
<td>N/R</td>
</tr>
<tr>
<td>INSTABILITY</td>
<td>N/R</td>
</tr>
<tr>
<td>OTHER</td>
<td>N/R</td>
</tr>
<tr>
<td>NFPA 30 STORAGE CLASSIFICATION</td>
<td>N/R</td>
</tr>
<tr>
<td>EXTINGUISHING MEDIUM</td>
<td>Use water fog, foam, CO(2), or dry chemical extinguishing media suitable for surrounding fires.</td>
</tr>
<tr>
<td>SPECIAL FIREFIGHTING PROCEDURES</td>
<td>Firefighters should be equipped with self-contained breathing apparatus and turnout gear. DO NOT decontaminate personnel or equipment or handle broken packages without the personal protective equipment specified in Section VII Personal Protection.</td>
</tr>
<tr>
<td>UNUSUAL FIRE EXPLOSION HAZARDS</td>
<td>*Organic dusts may form an explosive dust/air mixture. Decomposes at high temperatures forming toxic and/or flammable gases. Flammable vapor/air mixture may be explosive. Thermal decomposition products may include but are not limited to hydrogen sulfide, mercaptans (including methyl mercaptan), thiophosphates, diakylsulfides (including dimethylsulfide) and non-specified oxides of carbon, phosphorus, and sulfur.</td>
</tr>
<tr>
<td>Acronym</td>
<td>Description</td>
</tr>
<tr>
<td>---------</td>
<td>-------------------</td>
</tr>
<tr>
<td>N/A</td>
<td>Not available</td>
</tr>
<tr>
<td>N/D</td>
<td>Not determined</td>
</tr>
<tr>
<td>N/R</td>
<td>Not rated</td>
</tr>
<tr>
<td>N/E</td>
<td>Not established</td>
</tr>
</tbody>
</table>
SECTION V - HEALTH DATA

TOXICOLOGICAL TEST DATA:
Data for formulation:
Rat (male), Oral LD50 = 13 mg/kg
Rat (female), Oral LD50 = 8 mg/kg
Rat (male), Dermal LD50 = 123 mg/kg
Rat (female), Dermal LD50 = 71 mg/kg
Rat (male), Inhalation LC50 (4 hr) = 0.017 mg/L
Rat (female), Inhalation LC50 (4 hr) = 0.015 mg/L
Rat (male), Inhalation LC50 (1 hr calculated) = 0.068 mg/L
Rat (female), Inhalation LC50 (1 hr) = 0.06 mg/L
Rabbit, Skin Irritation - Study not conducted since dermal LD50 is < 200 mg/kg.
Rabbit, Eye Irritation - Study not conducted due to dermal toxicity.
Guinea pig, Dermal Sensitizer - Not a sensitizer

OSHA, NTP, or IARC Carcinogen: Not listed.

EFFECTS OF OVEREXPOSURE:
See Product Label and Directions For Use for additional precautionary statements.
DANGER! POISON - ORGANOPHOSPHATE. KEEP OUT OF REACH OF CHILDREN.
FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN.
DO NOT BREATHE DUST. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING.

Symptoms of acute toxicity may include nausea, abdominal cramps, vomiting, salivation, excessive sweating and diarrhea.
Other symptoms may include chest tightness, wheezing, blurred vision, fatigue, slurred speech and confusion.
Death may result from respiratory arrest, respiratory paralysis and/or constriction of the lungs.
A flu-like condition, characterized by loss of appetite, weight loss, and a general feeling of sickness
has been reported following chronic exposure to organophosphates.
Repeated exposures to cholinesterase inhibitors such as are contained in this product, may without warning,
cause prolonged sensitivity to very small doses of any cholinesterase inhibitor.
Persons working with this product should have frequent blood tests of their cholinesterase levels.

This formulation may contain more than 0.1% crystalline silica.
Overexposure to crystalline silica results in silicosis, a lung disease characterized by coughing, difficult breathing,
wheezing, scarring of the lungs, and repeated, non-specific chest illnesses. The International Academy for Research
on Cancer (IARC) has classified crystalline silica in Group 1 (those agents with evidence of carcinogenicity to humans).

Existing medical conditions aggravated by this product: None known.

FIRST AID PROCEDURES
If swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back
of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.
Avoid alcohol.
If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing
is difficult, give oxygen. Get medical attention.
If on skin: Wash thoroughly with soap and water. If irritation develops, consult a physician.
If in eyes: Immediately hold eyelids open and flush with a steady, gentle stream of water for 15-20 minutes. Get medical
attention.
Repeated inhalation or skin contact may, without symptoms, progressively increase susceptibility to poisoning.
Note to physician: Atropine is an antidote. Warning symptoms include weakness, headache, tightness in chest, blurred vision, nonreactive pinpoint pupils, salivation, nausea, vomiting, diarrhea, and abdominal cramps. Give atropine intramuscularly or intravenously, depending on severity of poisoning, 2 to 4 milligrams every 10 minutes until fully atropinized as shown by dilated pupils, dry flushed skin and tachycardia. Twenty to thirty milligrams, or more, may be required during the first 24 hours. Never give opiates or phenothiazine tranquilizers. Clear chest by postural drainage. Artificial respiration or oxygen administration may be necessary. Observe patient continuously for at least 48 hours. Allow no further exposure to any cholinesterase inhibitor until cholinesterase regeneration has taken place as determined by blood tests.

Pralidoxime chloride (2-PAM; PROTOPAM chloride) may be effective as an adjunct to atropine. Use according to label directions.

Note: Have the product container or label with you when calling a poison control center or doctor or going for treatment.

SECTION VI - REACTIVITY DATA

STABILITY: Stable. Decomposes on heating. Don't store above 100°F. Avoid moisture.

CONDITIONS TO AVOID: Store in original container in cool, dry, well ventilated place away from ignition sources, heat or flame.

CHEMICAL INCOMPATIBILITY: Strong oxidizers, strong acids, and strongly alkaline materials.

HAZARDOUS DECOMPOSITION PRODUCTS: See SECTION IV - Fire and Explosion Hazards

HAZARDOUS POLYMERIZATION: Does not occur.

CONDITIONS TO AVOID: Does not polymerize.

CORROSIVE TO METAL: No

OXIDIZER: No

SECTION VII - PERSONAL PROTECTION

PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions For Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Respiratory Protection:
Wear a NIOSH approved toxic dust respirator if the TLV or STEL is exceeded (0.05 mg/m(3) Skin; 0.2 mg/m(3) STEL).

Eye Protection:
Chemical goggles when respirator does not provide eye protection.

Protective Clothing:
Rubber gloves, rubber boots and protective clothing as necessary to prevent skin contact.

Wear rubber gloves, boots and other personal protective equipment should be decontaminated prior to re-use.

Ventilation:
Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

Wear a NIOSH approved toxic dust respirator while emptying bags into hopper.

Pour downwind and allow as little free fall as possible while emptying bags into equipment. DO NOT BREATHE DUST.

SECTION VIII - ENVIRONMENTAL DATA

ENVIRONMENTAL TOXICITY DATA

This pesticide is extremely toxic to fish and wildlife. Birds and wild mammals utilizing treated fields may be killed.
**SPILL AND LEAK PROCEDURES:**

In case of large scale spillage of this product, avoid contact, isolate area and keep out animals and unprotected persons. Call CHEMTREC (800 424-9300) or BASF Corporation (800 832-HELP). For a small spill, wear personal protective equipment as specified on the label.

**FOR A SOLID SPILL:** Sweep solid into a drum for re-use or disposal. Remove personal protective equipment and decontaminate it prior to re-use.

**DECONTAMINATION SOLUTION:** 10% household bleach, 5% isopropyl alcohol, 85% water. Rinse spill area and tools with the decontamination solution. Contain and absorb this rinsate with inert absorbents such as granular clay or sawdust and place in the same container as the spilled material.

**SPILLS TO BODIES OF WATER:** Immediately notify the appropriate authorities downstream of the spill so they can determine if further action is needed.

**RELEASES TO THE ENVIRONMENT:** The EHS RQ for this product is 1 lb. terbufos (equivalent to 6.67 lb of product). A spill of or in excess of the EHS RQ requires notification to state and local emergency authorities.

**HAZARDOUS SUBSTANCE SUPERFUND:** No

**HAZARDOUS SUBSTANCE NUMBER:** None

**RQ(lbs):** EHS (100) CERCLA - none

**WASTE DISPOSAL METHOD:**

Pesticide wastes are acutely hazardous. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:**

Return empty container to point of purchase.

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**SECTION IX - SHIPPING DATA - PACKAGE AND BULK**

**D.O.T. PROPER SHIPPING NAME (49CFR172.101-102):**
Organophosphorus pesticides, solid, toxic

**HAZARDOUS SUBSTANCE (49CFR CERCLA LIST):**
Terbufos

**RQ(lbs):** EHS (100) CERCLA - none

**D.O.T. HAZARD CLASSIFICATION (CFR 172.101-102):**

**PRIMARY**
Toxic

**SECONDARY**

**D.O.T. LABELS REQUIRED (49CFR172.101-102):**

6.1

**D.O.T. PLACARDS REQUIRED (CFR172.504):**
Poison

**POISON CONSTITUENT (49CFR172.203(K)):**
Terbufos

**BILL OF LADING DESCRIPTION**
Organophosphorus pesticides, solid, toxic (Terbufos), 6.1, UN2783, PG I, ERG 152, Marine Pollutant

**CC NO.:** Not applicable

**UN/NA CODE:** UN 2783
SECTION X - ADDITIONAL INFORMATION

Counter® 15G systemic insecticide nematicide LOCK’n LOAD®

RESTRICTED USE PESTICIDE

DUE TO ACUTE ORAL AND DERMAL TOXICITY.
NOT FOR USE OR STORAGE IN OR AROUND THE HOME.

EPA Reg. No. 241-238

KEEP OUT OF REACH OF CHILDREN

DANGER/PELIGRO

Complete Label and Directions For Use are attached to the product.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard,
40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the
Directions for Use section for information about this standard.

BASF Corporation
Agricultural Products Group
P.O.Box 13528,
Research Triangle Park, NC 27709
(919) 547-2000

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