



SAFETY DATA SHEET

DREXEL CARBARYL 5% BAIT INSECTICIDE

Section 1: Material Identification

Product Name: Drexel Carbaryl 5% Bait Insecticide

EPA Reg No.: 19713-627

CAS NO: 63-25-2

Formula: C₁₂H₁₁NO₂

Company: Drexel Chemical Company
1700 Channel Avenue
Memphis, TN 38106

Synonyms: 1-naphthyl methylcarbamate

Identifiers:

EINECS: 200-555-0

RTECS: FC5950000

DOT information: See Section 14 for Transportation Information

Emergency Telephone Number:

CHEMTREC
Tel: 1-800-424-9300

Drexel Chemical Co.
901-774-4370

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 Certain sections of this SDS are superseded by federal law governed by EPA for a registered pesticide.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.

Section 2: Hazard Identification (As defined by the OSHA Hazard Communication Standard, 29)

GHS classification:

Health Hazards:	Acute toxicity – oral	Category 4
	Acute toxicity – inhalation	Category 4
	Eye damage/irritation	Category 2B
	Specific target organ toxicity – (single exposure)	Category 1
	Specific target organ toxicity – (repeated exposure)	Category 2

Environmental hazards: Aquatic acute toxicity Category 1

Aquatic chronic toxicity

Category 1

GHS label elements:

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 with long lasting effects.

Precautionary Statements:

Prevention:

Wash thoroughly after handling.
Do not breathe 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: Call a poison control center/doctor if you feel unwell. 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 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 or concerned: Call poison center/doctor. Specific treatment, see Note to Physician, Section 4.
Get medical attention if you feel unwell.
Collect spillage.

Storage:

Store locked up.

Disposal:

Disposal of contents/container must be in accordance with your local or area regulatory authorities.

Section 3: Composition Information

<u>Components</u>	<u>CAS No.:</u>	<u>% By Wt.:</u>	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>
Active Ingredient: Carbaryl (1-naphthyl N-methylcarbamate)	63-25-2	5.0%	N/Av	5 mg/m ³
Inert Ingredients:	N/A	95.0%	N/A	N/A

Section 4: First-Aid Measures

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

If in Eyes: 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 eye. Call a poison control center or doctor for treatment advice.

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.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 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 mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Note to Physician: Carbaryl is an N-methyl carbamate that inhibits cholinesterase. Atropine is antidotal. Do not use 2-PAM (pyridine-2-aldoxime methiodide), opiates or cholinesterase inhibiting drugs. Probable mucosal damage may contraindicate the use of gastric lavage..

Section 5: Fire Fighting Measures

Fire Hazards: Thermal decomposition during a fire can produce fumes and irritating gases.

Flammability classification (OSHA 29 CFR 1910.1200): N/A

Flash point: N/A

Lower flammable limit (% by volume): N/A

Upper flammable limit (% by volume): N/A

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.

NFPA: Health: Flammability: Reactivity:

2 0 0

(Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)

Section 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. For large spills contact Drexel Chemical Co. 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.

Section 7: Handling and Storage

KEEP OUT OF REACH OF CHILDREN

Handling: **General Handling:** Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Do not swallow. Avoid breathing dust. Use with adequate ventilation. Wear chemical protective equipment when handling. Keep away from heat, sparks and flame. See Section 8, Exposure Controls and Personal Protection.

Storage: Store locked up in a cool, dry, and ventilated area designated specifically for pesticides and away from heat sources. Keep in original containers and keep containers closed when not in use. Do not store in excessive heat. Do not store near children, food, foodstuffs, drugs or potable water supplies.

Section 8: Exposure Controls / Personal Protection

Exposure Limits: TLV: Carbaryl 5 mg/m³

Personal 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: Loaders, applicator and other handlers must wear long-sleeved shirt, long pants, chemical resistant gloves 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 pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-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.

User Safety Requirements: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separate from other laundry.

User Safety Recommendations: Users should: 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) Remove PPE immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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. See label for other important engineering controls.

Section 9: Physical and Chemical Properties

Physical State:	Dry Granules
Color:	Brown
Odor:	Slight phenolic
Flash Point:	N/A
Vapor Pressure (mmHg):	N/A
Boiling Point:	N/A
Vapor Density (air = 1):	N/A
Bulk Density (H₂O = 1):	41.8 lbs/ft ³
Freezing Point:	N/A
Solubility in water (wt. %):	40 ppm @30°C
pH:	N/A
Viscosity:	N/A

Section 10: Stability and Reactivity

Stability/Instability: Thermally stable at typical use temperatures and in closed containers.

Conditions to Avoid: Avoid heat of open flame. Avoid high temperatures above 130°F (54.4°C).

Incompatible Materials: Avoid contact with: Strong acids. Strong bases.

Hazardous Polymerization: Will not occur.

Thermal Decomposition: Decomposition products can include: Carbon oxides, nitrogen oxides, trace amounts of methyl isocyanate.

Section 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:

Ingestion:

- LD50, (rat): 3310 mg/kg

Dermal:

- LD50, (rabbit): >2,000 mg/kg

Inhalation:

- LC50, (4h), (rat): 4.9 mg/l

Eye Irritation (rabbit):

- Mild irritation

Skin Irritation (rabbit):

- No irritation

Sensitization Skin:

- Non-sensitizer (Guinea Pigs)

Chronic Toxicity (Carbaryl):

Reversible cholinesterase inhibition occurred in chronic toxicity studies in rats 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): N/Av

Section 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 µg/bee)

Bird Toxicity:

- **Mallard Duck:** 8-day, LD50: >5000 mg/kg
- **Bobwhite Quail:** 8-day, LD50: >5000 mg/kg

Section 13: Disposal Considerations

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

Section 14: Transport Information

DOT: Not regulated at <=2000 lbs of product

Greater than 2000 lbs of product: UN 3077, Environmentally hazardous substance, solid, n.o.s., (Carbaryl), 9, PG-III, RQ 100 lbs, Marine Pollutant

IATA: UN-3077, Environmentally hazardous substances, solid, n.o.s., (Carbaryl), 9, PG-III, RQ 100 lbs.

IMDG: UN-3077, Environmentally hazardous substances, solid, n.o.s., (Carbaryl), 9, PG-III, RQ 100 lbs., Marine Pollutant

Freight Description: Agricultural Insecticide, solid, n.o.s.

ERG Guide No.: 171

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.

Section 15: Regulatory Information

OSHA Hazard Communication Standard:

- This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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.

EPA Label Hazards to Human Statements: CAUTION: Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

- **EPA/CERCLA Reportable Quantity:** 100 lbs. (2,000 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
- **Sec. 313. Toxic Chemical(s):** Carbaryl (CAS 63-25-2)
- **RCRA Waste Code:** U279

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

- Carbaryl is 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.

Section 16: Other Information

Drexel Chemical Company recommends that each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown below. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.

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