

# MATERIAL SAFETY DATA SHEET

Drexel Chemical Co.  
1700 Channel Avenue  
Memphis, TN 38113

Emergency Telephone No.  
(901) 774-4370  
1-800-424-9300 (ChemTrec)

## SECTION I – GENERAL INFORMATION

TRADE NAME	<b>CARBARYL 4L</b>
CHEMICAL NAME	1-Naphthyl N-methylcarbamate (Carbaryl)
CHEMICAL FAMILY	Carbamates (Insecticide)
EPA REG. NO.	19713-49
SIGNAL WORD	CAUTION

## SECTION II – INGREDIENTS (Class = H (Hazardous), NH (Non-Hazardous))

NAME	CAS NO.	% (by wt.)	TLV	CLASS
Carbaryl	63-25-2	43.40	5 mg/m <sup>3</sup>	H
Inerts	N/A	56.60	N/A	NH

## SECTION III – PHYSICAL DATA

<u>Boiling Point</u>	208°F-212°F	<u>Specific Gravity</u>	1.11 @ 20°C
<u>Vapor Pressure</u>	17.8mmHg @ 20°C	<u>% Volatiles</u>	51%
<u>Vapor Density</u>	0.62	<u>Solubility in Water</u>	Dispersible
<u>pH</u>	4.0-5.0	<u>Appearance/Odor</u>	White liquid with mild odor

## SECTION IV – FIRE & EXPLOSION DATA

Flash Point	>200°F
Extinguishing Media	Use CO <sup>2</sup> , dry chemical for small fires. Use alcohol foam, polymer foam, or water spray for large fires.
Fire Fighting Procedures	Self-contained breathing apparatus is required. Consult physician if heavily exposed. Prevent water runoff if possible.

## SECTION V – REACTIVITY DATA

Stability	Stable under normal conditions
Conditions to Avoid	Extreme temperatures and open flame
Incompatibility	Avoid contamination with strong acids and bases
Hazardous Decomposition Products	Thermal decomposition or burning may produce oxides of nitrogen, oxides of carbon, and methyl isocyanate (trace amounts, no adverse health effects expected).
Hazardous Polymerization	Will not occur.

## SECTION VI – HEALTH HAZARD DATA

Carcinogenicity	N/A
Toxicity Data	Oral LD50 (Rat) = 590 mg/kg Dermal LD50 (Rabbit) = >2,000 mg/kg
TLV	5 mg/m <sup>3</sup>
N.F.P.A.	Health: 3, Fire: 0, Reactivity: 0 (Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)
Effects of Overexposure	Causes headaches, nausea, vomiting, sweating, abdominal cramps and pinpoint pupils.

## SECTION VII – EMERGENCY PROCEDURES

**If Swallowed:** Call a 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person or convulsing person.

**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.

**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes.

**If Inhaled:** Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardiopulmonary resuscitation). Seek medical attention.

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

**General:** Contact a physician immediately in all cases of suspected poisoning. Transport to a physician or hospital immediately and SHOW A COPY OF THIS LABEL TO THE PHYSICIAN. If poisoning is suspected in animals, contact a veterinarian.

**Antidote Statement:** ATROPINE SULFATE IS HIGHLY EFFECTIVE AS AN ANTIDOTE. Narcotics and other sedatives should not be used. Further, drugs like 2-PAM (pyridine-2-aldoxime methiodide) are NOT recommended. See NOTE TO PHYSICIAN.

**NOTE TO PHYSICIAN:** Treat symptomatically. Overexposure to materials other than this product may have occurred. Carbaryl is an N-methylcarbamate insecticide, which is a cholinesterase inhibitor. Overexposure to this substance may cause toxic signs and symptoms due to stimulation of the cholinergic nervous system. These effects of overexposure are spontaneously and rapidly reversible. Gastric lavage may be used if this product has been swallowed. Carbaryl poisoning may occur rapidly after ingestion and prompt removal of stomach contents is indicated. Specific treatment consists of parenteral atropine sulfate. Caution should be maintained to prevent over-atropinization. Improve tissue oxygenation as much as possible before administering atropine to minimize the risk of ventricular fibrillation. Mild cases may be given 1 to 2 mg intramuscularly every 10 minutes until fully atropinized, the intramuscularly every 30 to 60 minutes as needed to maintain the effect for at least 12 hours. Dosages for children should be appropriately reduced. Complete recovery from overexposure is to be expected within 24 hours. Narcotics and other sedatives should not be used. Further, drugs like 2-PAM (pyridine-2-aldoxime methiodide) are NOT recommended. To aid in confirmation of diagnosis, urine samples should be obtained within 24 hours of exposure and immediately frozen.

## SECTION VIII- SPILL OR LEAK PROCEDURES

**Steps to be taken in case of material leak or spill**  
Dilute spill using absorbent or impervious materials such as earth, sand, clay to contain spill. Cover with sweeping compound and sweep up with as little dusting as possible. Mop area with water. Do not flush material to public sewer systems. Assure that protective gear is worn.  
**Waste Disposal Method**  
Dispose of in accordance with Local, State, and Federal Regulations.

**SECTION IX – SPECIAL PROTECTION INFORMATION**

Respiratory Protection	NIOSH approved respirator
Ventilation	General recommended
Protective Gloves	Chemical-resistant
Eye Protection	Chemical goggles
Other	Long-sleeved shirt and long pants, shoes plus socks and chemical-resistant headgear for overhead exposure.

The information presented herein for consideration, while not guaranteed, is true and accurate to the best of our knowledge. No warranty, or guaranty is expressed or implied regarding the accuracy or reliability of such information and we shall not be liable for any loss or consequential damages arising out of the use thereof.

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**SECTION X – SPECIAL PRECAUTIONS**

Precautions To Be Taken In Handling & Storage

KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL DIRECTIONS CAREFULLY.

Store in original container only in cool, dry area. Do not contaminate water, food, or feed. Avoid contact with skin and eyes.

D.O.T. Description Environmentally Hazardous Substance, Liquid, N.O.S., (Carbaryl), 9, Marine Pollutant, UN-3082, PG-III,

**NOTE: 2 x 2.5 G Case Not Regulated**

Freight Description Agricultural Insecticide, Liquid, N.O.S.

Reportable Quantity 100 lbs.

E.R.G. Guide Sheet 171