

# MATERIAL SAFETY DATA SHEET

# ACEPHATE 90 WDG

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### MANUFACTURED FOR:

LOVELAND PRODUCTS, INC.  
P.O. Box 1286 • Greeley, CO 80632-1286

**24-Hour Emergency Phone:** 1-800-424-9300  
**Medical Emergencies:** 1-866-944-8565  
**U.S. Coast Guard National Response Center:** 1-800-424-8802

**PRODUCT NAME:** ACEPHATE 90 WDG  
**CHEMICAL NAME:** Acephate: (O,S-dimethyl acetylphosphoramidothioate)  
**CHEMICAL FAMILY:** Organophosphate Insecticide  
**EPA REG. NO.:** 34704-1051  
**MSDS Number:** 001051-12-LPI

**MSDS Revisions:** Sections 2, 4, 7, 8, 15

**Date of Issue:** 05/03/12

**Supersedes:** 02/16/10

## 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN – CAUTION –** Harmful if swallowed or inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing.

This product is a fine, white powder with rotten cabbage-like odor.

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Acephate	90.00	30560-19-1	not listed
Other Ingredients	10.00		

## 4. FIRST AID MEASURES

- 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.
- 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 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 by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.** Have the product label or container with you when calling a poison control center or doctor, or going for treatment.

**NOTE TO PHYSICIAN:** Acephate is a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure but decisions regarding treatment will usually need to be made before test results are available. If signs of cholinesterase inhibition appear, atropine is antidotal. 2-PAM (PROTOPAM) is also antidotal and may be used in conjunction with atropine but should not be used alone.

## 5. FIRE FIGHTING MEASURES

- FLASH POINT (°F/Test Method):** Not applicable.
- FLAMMABLE LIMITS (LFL & UFL):** Not applicable.
- EXTINGUISHING MEDIA:** Foam, carbon dioxide, or water spray.
- HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon, oxides of sulphur, oxides of nitrogen, oxides of phosphorous, and water vapor.
- SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus with full protective clothing. Evacuate area and fight fire from a safe distance. Minimize the amount of water used for firefighting. Equipment should be completely decontaminated after use.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** If water is used to fight fire or cool containers, contain runoff, using dikes to prevent contamination of water supplies. Dusts may form explosive mixtures with air. Avoid using heavy water streams.

## 6. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Clean up spills immediately. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Vacuum or sweep up material and place in a properly labeled disposal container. Large spills may be neutralized with dilute solutions of soda ash or lime. After removal, flush contaminated area thoroughly with water. Do not allow any material to run off into soil, drainage systems, or bodies of water.

**CAUTION:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**7. HANDLING AND STORAGE**

**HANDLING:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. If pesticide comes in contact with skin, wash off with soap and water.

**PESTICIDE STORAGE:** Keep pesticide in original container. Store in a cool, dry place away from excessive heat. Do not contaminate water, food or feed by storage or disposal. Do not put concentrate or dilute into food or drink containers.

**Personal Protective Equipment (PPE): Mixers, loaders, applicators and all applicators using low-pressure hand wand application equipment must wear:** long sleeved shirt and long pants, socks and shoes, chemical-resistant gloves. **On addition, all mixers and loaders and all applicators using low-pressure hand wand application equipment must wear:** a NIOSH-approved dust mist filtering respirator with MSHS/NIOSH approval number prefix TC-21C or a NIOSDH-approved respirator with any N, R, P, or HE filter. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40CFR 170.240 (d)(6)]. The use of human flaggers is prohibited.

**RESPIRATORY PROTECTION:** Wear a NIOSH approved dust/mist filtering respirator (approval number prefix TC-21C) when using in an area with inadequate ventilation.

**EYE PROTECTION:** Chemical goggles or shielded safety glasses.

**SKIN PROTECTION:** Wear protective clothing: coveralls over long-sleeved shirts and pants, shoes plus socks. Wear waterproof gloves.

	<b>OSHA PEL 8 hr TWA</b>	<b>ACGIH TLV-TWA</b>
PNOC*	15 mg/m <sup>3</sup> (Total Dust)	not listed

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE AND ODOR:</b> Fine, white powder with rotten cabbage-like odor.	<b>SOLUBILITY:</b> 750 g/L
<b>SPECIFIC GRAVITY (Water = 1):</b> 0.400-0.481 g/ml	<b>BULK DENSITY:</b> 25-30 lb/ft <sup>3</sup>
<b>VAPOR PRESSURE:</b> Not applicable	<b>BOILING POINT:</b> Not applicable
<b>PERCENT VOLATILE (by volume):</b> Not applicable	<b>EVAPORATION RATE:</b> Not established

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable

**CONDITIONS TO AVOID:** High temperatures and excess moisture.

**INCOMPATIBILITY:** Alkaline materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Noxious gases when exposed to alkaline materials. Oxides of carbon, oxides of sulphur, oxides of nitrogen, oxides of phosphorous, and water vapor

**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

<b>Acute Oral LD<sub>50</sub> (rat):</b> 1,030 mg/kg	<b>Acute Dermal LD<sub>50</sub> (rabbit):</b> >10,000 mg/kg
<b>Eye Irritation (rabbit):</b> Moderate irritation	<b>Skin Irritation (rabbit):</b> Not an irritant
<b>Inhalation LC<sub>50</sub> (rat):</b> >60 mg/L (4 hr) [Acephate Technical].	<b>Skin Sensitization (guinea pig):</b> Not a sensitizer

**Carcinogenic Potential:** None listed in OSHA, NTP, IARC or ACGIH. EPA classifies Acephate as Group C: Possible Human Carcinogen: Limited evidence of carcinogenicity in animals in the absence of human data.

**12. ECOLOGICAL INFORMATION**

This pesticide is toxic to birds. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

**13. DISPOSAL CONSIDERATIONS**

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.  
**CONTAINER DISPOSAL:** Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances.

**14. TRANSPORT INFORMATION**

**DOT Shipping Description:** NOT REGULATED BY USDOT  
**U.S. Surface Freight Classification:** INSECTICIDES OR FUNGICIDES, INSECT OR ANIMAL REPELLENTS, NOI, OTHER THAN POISON (NMFC 102120; CLASS: 60)  
**Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.**

**15. REGULATORY INFORMATION**

<b>NFPA &amp; HMIS Hazard Ratings:</b>	NFPA		HMIS
	1 Health	0 Least	1 Health
	1 Flammability	1 Slight	1 Flammability
	0 Instability	2 Moderate	0 Reactivity
		3 High	J PPE
		4 Severe	

<b>SARA Hazard Notification/Reporting</b>				
<b>SARA Title III Hazard Category:</b>	Immediate	<u>Y</u>	Fire	<u>N</u>
	Delayed	<u>Y</u>	Reactive	<u>N</u>
			Sudden Release of Pressure	<u>N</u>

**Reportable Quantity (RQ) under U.S. CERCLA:** Not listed  
**SARA, Title III, Section 313:** Acephate (CAS: 30560-19-1) 90.0%  
**RCRA Waste Code:** Not listed  
**CA Proposition 65:** Not listed.

**CAUTION** – 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 chemicals.

**16. OTHER INFORMATION**

**MSDS STATUS:** Sections 2, 4, 7, 8, 15 revised  
**PREPARED BY:** Registrations and Regulatory Affairs  
**REVIEWED BY:** Environmental/ Regulatory Services  
 \*Particulates not otherwise classified/regulated

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