

Material Safety Data Sheet

Date last revised: 4 February, 2009

I. General Information

Chemical Name and Synonyms Temephos	Trade Name & Synonyms Abate 2-BG
Chemical Family Organophosphate	EPA Registration Number 8329-16, 8329-71
Proper DOT Shipping Name Agricultural Insecticide, N.O.I., Other than Liquid	DOT Hazard Classification Non-Hazardous
Manufacturer Clarke Mosquito Control Products, Inc.	Manufacturer's Phone Number (630) 894-2000
Manufacturer's Address 159 North Garden Avenue Roselle, Illinois 60172	INFOTRAC (Transportation/Spill Emergency) 1-800-535-5053 Poison Control Center (Medical Emergency) 1-800-214-7753

CAUTION: Harmful if absorbed through skin. Harmful if swallowed. Harmful if inhaled. Avoid breathing dust. Avoid contact with skin, eyes or clothing.

II. Ingredients

Principal Hazardous Components	CAS #	OSHA PEL-TWA	Wt%
Temephos	003383-96-8	15mg/m3	2.0
Other ingredients (non-hazardous and/or trade secret)			98.0

III. Physical Data

Appearance: Grey, free flowing granules	Boiling Point (°F): Not Applicable
Odor: Mercaptan-like odor	Specific Gravity (H₂O = 1):
Density (lb/cubic foot): 40.0 ± 3.0	Vapor Pressure (mm Hg.): Negligible
Solubility in Water: Negligible	

IV. Fire & Explosion Hazard Data

Flash Point (Test Method): Not Applicable

Extinguishing Media: Extinguish using an agent suitable for the surrounding fire. (Material itself does not burn or burns with difficulty).

Special Fire Fighting Procedures: Wear self-contained, positive pressure breathing apparatus and full fire fighting protective clothing. Keep unnecessary people away. Use as little water as possible. Dike area of fire to prevent pesticide run-off. Use spray or fog – solid stream may cause spreading. Do not decontaminate personnel or equipment, or handle broken packages or containers without protective equipment as specified in the Exposure Control Section. Decontaminate emergency personnel with soap and water before leaving the fire area.

Unusual Fire & Explosion Hazards: Avoid breathing dusts, vapors and fumes from burning materials. Control run-off water. If water enters a drainage system, advise the authorities downstream.

V. Health Hazard Data

Toxicity*: Oral LD ₅₀ : > 1,500 mg/kg Dermal LD ₅₀ : > 2,000 mg/kg	This product is considered to be slightly toxic by acute ingestion. This product is considered to be moderately toxic if absorbed into the skin.
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Teratogenicity: No teratogenic or fetotoxic effect was observed at all dose levels tested in both rabbits and rats.

Carcinogenicity: None of the components of this product is listed as a human carcinogen by the IARC, OSHA or NTP.

Mutagenicity: No mutagenic activity was observed in ABATE Technical by all test methods used. (Bacterial/Microsome Reverse Mutation (AMES) Test, Chemical Induction of Chromosome Aberration using Monolayer Cultures or Chinese Hamster Ovary (CHO) Cells with and without Metabolic Activity, Rat Hepatocyte Primary Culture/DNA Repair Test, and Mammalian Cell CHO/Hypoxanthine Guanine Phosphoribosyl Transferase (HGPRT) Mutagenicity Test)

Medical Conditions Aggravated by Exposure: Knowledge of the available toxicology information and of the physical and chemical properties of the material suggest that overexposure is unlikely to aggravate existing medical conditions.

Symptoms of Overexposure (Note to Physicians): Probable mucosal damage may contraindicate the use of gastric lavage. This product may inhibit activity of cholinesterase. Atropine is antidotal. Pralidoxime chloride (2-PAM; PROTOPAM Chloride) may be effective as an adjunct to atropine.

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EMERGENCY FIRST AID

Skin Contact: Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Eye: Causes substantial but temporary eye injury. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person

VI. Reactivity Data

Stability:		Unstable	Conditions to Avoid:
	X	Stable	Storage above 60 °C
Incompatibility		May Occur	Conditions to Avoid:
	X	Will Not Occur	Strong alkalis and some oxidizing agents
Hazardous Decomposition Products	Decomposition may produce oxides of carbon, phosphorous, and sulfur		

VII. Environmental Protection Procedures

Spill Response: Wear protective equipment per Exposure Control Methods Section. Shovel spill into a closed metal container.

Storage: Do not contaminate water, food, or feed by storage or disposal. Store in a secure, dry, well-ventilated room, building or covered area.

Waste Disposal: Dispose in accord with local, state, and federal regulation.

VIII. Special Protection Information

Exposure Control Methods: Mixers, loaders, applicators and other handlers must follow personal protection (PPE) and engineering controls requirements on product label. Loaders and applicators must wear dermal protection and protective eyewear. Where respiratory exposure exceeds PEL, handlers must wear a dust-mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any M,R,P, or HE filter.

Other Protection: Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product.

IX. Additional Regulatory Information

SARA Title III Data

Section 311 and 312 Hazard Categories

Immediate Health Hazard	Y	Reactive Hazard	N
Delayed Health Hazard	N	Sudden Pressure	N
Fire Hazard	N	Release Hazard	N

Section 302 Extremely Hazardous Substances:

None

Section 313 Toxic Chemicals:

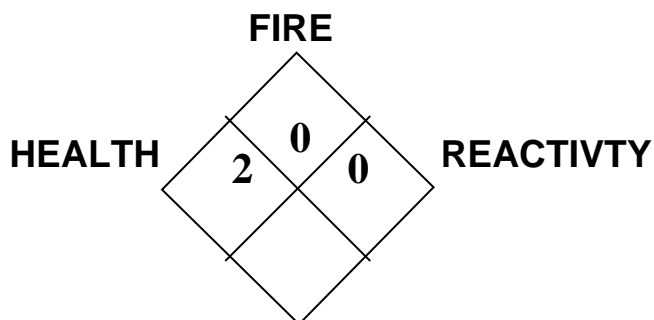
Temephos

CAS# 3383-96-8

2.0% by weight

CERCLA Reportable Quantity:

None



NFPA Code Key

- 4 = Severe
- 3 = Serious
- 2 = Moderate
- 1 = Slight
- 0 = Minimal

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. **NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.**