

MATERIAL SAFETY DATA SHEET

DEVIRINOL® 2-G ORNAMENTAL

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Issue Date: 4/04

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

DEVIRINOL 2-G ORNAMENTAL

Devirinol is a registered trademark of United Phosphorus Inc.

EPA Reg. No. 70506-33-17545

Common Name: Water-dispersible, granular herbicide.

Chemical Description: Napropamide [N,N-diethyl-2-(1-naphthalenyloxy)-propionamide] (active ingredient).

TSCA/CAS No.: This product is a mixture — there is no specific CAS number.

Manufactured For

Monterey Chemical Company

P. O. Box 35000

Fresno, CA 93745-5000

Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES.: (559) 431-7390

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Napropamide	15299-99-7	2	None	N.P.
Inert ingredients*	---	98	None	N.P.

N.P. – Not Pertinent

* Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Tan granule with a slight solvent odor. Moderate eye irritant. Relatively non-reactive. During extreme heat, toxic gases may be produced. Toxic to fish. Not D.O.T. regulated.

HEALTH: 1 REACTIVITY: 0 FLAMMABILITY: 0 ENVIRONMENT: 1
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

SECTION 4. FIRST AID

If in eyes: 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 eyes. 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 soap and water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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 inhaled: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

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

SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point:	Not applicable.
Test Method:	Not pertinent.
LFL Flammable Limits:	Not pertinent.
UFL Flammable Limits:	Not pertinent.
Autoignition Temperature:	No data.
Flammability Classification:	Non-combustible.
Known Hazardous Products of Combustion:	Product may decompose.
Properties that Initiate/Contribute to Intensity of Fire:	None known.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	None known.
Potential For Release of Flammable Vapors:	Not known.
Unusual Fire & Explosion Hazards:	None known.
Extinguishing Media:	Water spray, dry chemicals, foam or carbon dioxide. High pressure water hose may spread product from broken containers, increasing contamination hazards.
Special Firefighting Procedures:	Fire fighters should wear self-contained breathing apparatus with full facepiece and impervious protective clothing. Contain any liquid runoff.

SECTION 6. SPILLS AND LEAKS

Make sure all personnel involved in the spill cleanup follow good industrial hygiene practices. Any person entering an unknown concentration of dust should use a NIOSH-approved respirator. A small spill can be handled routinely. Use adequate ventilation and wear an air-supplied respirator to prevent inhalation. Sweep up spilled material being careful not to create dust. Place sweepings in a chemical waste container for disposal. Generously cover the contaminated areas with common, household detergent. Using a stiff brush and small amounts of water, work the detergent into the remaining spilled material forming a slurry. Brush the slurry into cracks and crevices and allow to stand for 2-3 minutes. Be careful to completely avoid skin or eye contact. Do not splatter on oneself or bystanders. Seal drum and dispose of contaminated material in a facility permitted for hazardous waste. Large spills should be handled according to a spill plan. Otherwise, in case of emergency call Chemtrec, day or night, 1-800-424-9300.

SECTION 7. STORAGE AND HANDLING

Containers should be stored in a cool, dry, well-ventilated area away from flammable materials and sources of heat or flame. Exercise due caution to prevent damage to or leakage from the container.

Do not store near feed, food, or within the reach of children. Keep food and animal feed in separate area away from the storage/use location.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

ENGINEERING CONTROLS: This product is intended for use outdoors where engineering controls are not necessary. If use conditions are different (e.g. product reformulation or repackaging), employee exposure should be minimized using traditional techniques such as enclosed system design and/or local exhaust.

EYE PROTECTION: Eye contact with the material should be avoided through the use of chemical safety glasses, goggles or a faceshield, selected in regard to exposure potential.

BODY PROTECTION: Skin contact should be prevented through the use of impervious gloves, footwear, long-sleeved clothing and wide brimmed hat. Remove contaminated clothing and wash before reuse.

RESPIRATORY PROTECTION: If needed, use MSHA-NIOSH approved respirator for pesticides.

OTHER PROTECTIVE EQUIPMENT: Eyewash station and safety shower in work area.

SPECIAL PRECAUTIONS OR OTHER COMMENTS: Prevent skin and eye contact with this material. Avoid inhalation of spray mist. Workers must follow good personal hygiene practices. Wash with soap and water immediately after use or contact. Do not eat, drink or smoke in areas where the material is being used.

SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance:	Tan granules.
Odor:	Slight solvent.
pH:	Not available.
Vapor Pressure:	Not pertinent.
Vapor Density (Air = 1):	Not pertinent.
Boiling Point:	Not pertinent.
Freezing Point:	Not pertinent.
Water Solubility:	Not available.
Density:	38 – 43 lb/cu. ft. (loose bulk)
Evaporation Rate (butyl acetate = 1):	Not pertinent.
Viscosity:	Not pertinent.
% Volatile:	Not available.
Octanol/Water Partition Coefficient:	Not pertinent.
Saturated Vapor Concentration:	Not pertinent.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions To Avoid:	None known.
Incompatibility:	The product is relatively non-reactive. Non-corrosive to materials commonly used in the construction of process equipment, storage and shipping containers.
Hazardous Decomposition Products:	Combustion products – toxic gases
Hazardous Polymerization:	Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTSAcute Effects:

Ingestion: A single does of this product is classified as “practically nontoxic” by ingestion. Oral LD₅₀ (rat) > 5,000 mg/kg when extrapolated from the acute oral LD₅₀ of > 5,000 mg/kg for the technical material (> 90% active ingredient).

Skin: No irritation is likely to develop following contact with human skin. This material was nonirritating in rabbit dermal irritation studies. Dermal LD₅₀ (rabbit) > 5,000 mg/kg when extrapolated from the acute dermal LD₅₀ of > 5,000 mg/kg for the technical material (> 90% active ingredient).

Eyes: Moderately irritating. A similar degree of irritation will probably occur after human eye contact.

Inhalation: Since this product is a granular formulation, significant inhalation exposure is unlikely to occur.

Other Effects of Overexposure: The principal routes of exposure are skin contact and inhalation. No other adverse clinical effects have been associated with exposure to this material.

SECTION 12. ECOLOGICAL INFORMATION

Toxic to fish.

SECTION 13. DISPOSAL

Disposal Method: Discarded product is not a hazardous waste under RCRA, 40 CFR 261.

Container Disposal: Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue and puncture or otherwise destroy empty container before disposal.

SECTION 14. TRANSPORTATION

D.O.T. Proper Shipping Description: Not D.O.T. Regulated

Other Shipping Description: Compounds, Tree or Weed Killing (Herbicide).

SECTION 15. REGULATORY INFORMATION

TSCA (40 CFR 710): This product is a pesticide and is exempt from TSCA regulation.

CERCLA and SARA (40 CFR 355, 370 and 372): This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

CALIFORNIA'S PROPOSITION 65: None.

SECTION 16. OTHER

While the information contained herein is based on data considered accurate and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act, it is provided for guidance only. Monterey Chemical Company does not guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations; in so doing, user assumes all risk in use of the material. The information contained herein is not to be taken as a warranty or representation for which Monterey Chemical Company assumes legal responsibility.