

# Napropamide-MATERIAL SAFETY DATA SHEET

## Manufacturer/information service:

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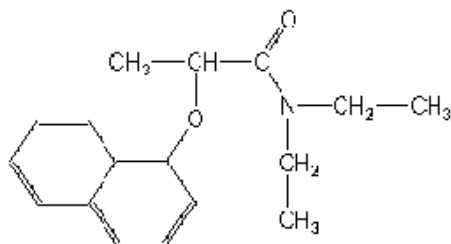
## 1. Chemical Product Identification

Product Name: Napropamide

Molecular Formula: C<sub>17</sub>H<sub>21</sub>NO<sub>2</sub>

Molecular Weight: 271

Structural Formula:



Chemical Name: N,N-diethyl-2-(1-naphthalenyloxy)propanamide

Form: Solid

Color: Tan

Odor: Slight solvent odor.

CAS No.: 15299-99-7

## 2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Napropamide	15299-99-7	96.0
Other ingredients		4.0

## 3. Hazards Identification

Moderate eye irritant. Relatively non-reactive. During extreme heat, toxic gases may be produced. Toxic to fish. Not D.O.T. regulated.

#### **4. First Aid Measures**

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 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.

#### **5. Fire-Fighting Measures**

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.

#### **6. Accidental Release Measures**

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.

#### **7. Handling And Storage**

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.

#### **8. Exposure Controls/Personal Protection**

**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.

## **9. Physical and Chemical Properties**

Water Solubility: 73 mg/L @ 20°C

Solubility in Other Solvents: v.s. in acetone, ethanol, xylene, and hexane

Melting Point: 68–70°C

Vapor Pressure: 0.53 mPa @ 25°C

Partition Coefficient: 3.3617 @ 25°C

Adsorption Coefficient: 700

## **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.

## **11. Toxicological Information**

**Acute Effects:**

**Ingestion:** A single dose of this product is classified as “practically nontoxic” by ingestion. Oral LD<sub>50</sub> (rat) > 5,000 mg/kg when extrapolated from the acute oral LD<sub>50</sub> of >5,000 mg/kg

**Skin:** No irritation is likely to develop following contact with human skin. This material was nonirritating in rabbit dermal irritation studies. Dermal LD<sub>50</sub> (rabbit) > 5,000 mg/kg

**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.

## 12. Ecological And Ecotoxicological Information

Effects on birds: practically nontoxic to game birds. The compound has 5-day dietary LC50 values ranging from nearly 7200 ppm in the mallard duck to 5600 ppm in the bobwhite quail.

Effects on aquatic organisms: slightly to moderately toxic to freshwater fish species. The LC50 for the compound ranges from 9 to 16 mg/L in rainbow trout and from 20 to 30 mg/L in bluegill sunfish. The LC50 in goldfish is greater than 10 mg/L. Napropamide appears to be slightly toxic to aquatic invertebrates; the reported 48-hour LC50 for the compound in *Daphnia magna* is 14.3 mg/L.

Effects on other organisms: The reported oral LD50 for napropamide in bees is 121 ug/bee, indicating it is not toxic to this species.

## 13. Disposal Considerations

Disposal Method: Discarded product is not a hazardous waste.

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.

## 14. Transport Information

Not applicable.

## 15. Regulatory Information

Not applicable.

## 16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.