



Material Safety Data Sheet

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Responsible Party: Reference Standards Technical Services

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METHSUXIMIDE

Catalog Number: 1422001

Package Size: 500 mg

Revision Date: December 24, 2003

SECTION 1 - IDENTIFICATION

Common Name: Methsuximide

Formula: C₁₂H₁₃NO₂

Synonym: n/f

Chemical Name: 2,5-Pyrrolidinedione, 1,3-dimethyl-3-phenyl-

CAS Number: 77-41-8

RTECS Number: WN2625000

Chemical Family: A Pyrrolidine derivative

Therapeutic Category: Anticonvulsant

SECTION 2 - INGREDIENT INFORMATION

<u>Principle Components</u>	<u>Percent</u>	<u>Exposure Limits</u>
Methsuximide	Pure Material	n/f

SECTION 3 - HEALTH HAZARD INFORMATION

Usual Adult Dose: The usual oral adult dose of methsuximide is 300 mg once a day, gradually increased as needed, but not to exceed a maximum of 1.2 grams per day, in divided doses.

Adverse Effects: Adverse effects may include dizziness, drowsiness, clumsiness or unsteadiness, loss of appetite, nausea or vomiting, stomach cramps, headache, hiccups, skin rash and itching, swollen glands, sore throat and fever, muscle pain, irritability, unusual weakness, aggressiveness, difficulty concentrating, mental depression, and nightmares. Possible allergic reaction to material if inhaled, ingested or in contact with skin.

Overdose Effects: Symptoms of overdose include severe drowsiness, severe nausea or vomiting, and slow or troubled breathing.

Acute: Possible eye, skin, gastrointestinal and/or respiratory tract irritation.

Chronic: Possible hypersensitization.

Inhalation: May cause irritation. Remove to fresh air.

Eye: May cause irritation. Flush with copious quantities of water.

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Skin: May cause irritation. Flush with copious quantities of water.

Ingestion: May cause irritation. Flush out mouth with water. This material is rapidly and completely absorbed from the gastrointestinal tract.

Medical Conditions Aggravated by Exposure: Hypersensitivity to material.

Cross Sensitivity: Persons sensitive to one succinimide anticonvulsant may be sensitive to this material also.

Pregnancy Comments: Pregnancy problems in humans have not been documented, but birth defects have been associated with other anticonvulsant medications.

Pregnancy Category: n/f

SECTION 4 - FIRST AID MEASURES

General: Remove from exposure. Remove contaminated clothing. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention. If person is not breathing give artificial respiration. If breathing is difficult give oxygen. Obtain medical attention.

Overdose Treatment: Treatment of overdose should be symptomatic and supportive and may include the following:

1. Induce vomiting (unless person is or could become obtunded, comatose, or convulsive), or perform gastric lavage.
2. Administer activated charcoal and/or cathartics.
3. Charcoal hemoperfusion may be used to remove the N-desmethyl metabolite of methsuximide. [USP DI 2003]

SECTION 5 - TOXICOLOGICAL INFORMATION

Oral Rat: LD50: n/f

Oral Mouse: LD50: 900 mg/kg

Irritancy Data: n/f

Target Organ(s): Central nervous system

Listed as a Carcinogen? NTP: No IARC: No OSHA: No

Other: No

SECTION 6 - FIREFIGHTING MEASURES

Flash Point: n/f

Upper Flammable Limit: n/f

Auto-Ignition Temperature: n/f

Lower Flammable Limit: n/f

Extinguisher Media: Water spray, dry chemical, carbon dioxide or foam as appropriate for surrounding fire and materials.

Fire and Explosion Hazards: This material is assumed to be combustible. As with all dry powders it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential buildup of static electricity.

Firefighting Procedures: As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

SECTION 7 - PHYSICAL HAZARDS

Conditions to Avoid: n/f

Incompatibilities: Oxidizing agents.

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Decomposition Products: When heated to decomposition material emits toxic fumes of NOx. Emits toxic fumes under fire conditions.

Stable? Yes **Hazardous Polymerization?** No

SECTION 8 - HANDLING / SPILL / DISPOSAL MEASURES

Handling: As a general rule, when handling USP Reference Standards avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Wash thoroughly after handling.

Storage: Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

Spill Response: Wear approved respiratory protection, chemically compatible gloves and protective clothing. Wipe up spillage or collect spillage using a high efficiency vacuum cleaner. Avoid breathing dust. Place spillage in appropriately labelled container for disposal. Wash spill site.

Disposal: Dispose of waste in accordance with all applicable Federal, State and local laws.

SECTION 9 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: When working with small quantities in a well-ventilated area, respiratory protection may not be required. The use of an approved dust mask is recommended.

Ventilation: No special ventilation requirements.

Gloves: Rubber

Eye Protection: Safety Glasses

Protective Clothing: Protect exposed skin.

SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES

NOTE: The data reported below is general information, and is not specific to the USP Reference Standard Lot provided!

Appearance and Odor: White to grayish-white crystalline powder; odorless or slight odor.

Melting Point: 52 - 53° C

Solubility in Water: Slightly soluble in hot water

Vapor Density: n/f

Boiling Point: n/f

Evaporation Rate: n/f

Specific Gravity: n/f

Reactivity in Water: n/f

Vapor Pressure: n/f

% Volatile by Volume: 0.5