

MATERIAL SAFETY DATA SHEET

Hampford Research, Inc.

SECTION 1. -----CHEMICAL PRODUCT AND COMPANY IDENTIFICATION-----

ETHYL 4-DIMETHYLAMINO BENZOATE

CHEMICAL FORMULA: C11 H15 NO2

CAS NUMBER: 10287-53-3

CHEMICAL NAME: Benzoic acid, 4-(dimethylamino)-, ethyl ester

REVISED: 12/30/2004

MANUFACTURER: Hampford Research, Inc
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SECTION 2. -----COMPOSITION / INFORMATION ON INGREDIENTS-----

COMPONENT	CAS #	% BY WEIGHT	EXPOSURE LIMITS
Benzoic acid, 4-(dimethylamino)-, ethyl ester	10287-53-3	99+%	Not established

SECTION 3. -----HAZARDS IDENTIFICATION-----

EYES: May cause irritation.

SKIN: May be harmful by absorption or cause irritation.

SWALLOWING: May be harmful.

INHALATION: May be harmful.

SECTION 4. -----FIRST AID MEASURES-----

EYE CONTACT:
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

SKIN CONTACT:
In case of contact, immediately wash skin with soap and copious amounts of water for at least 15 minutes. Remove and wash contaminated clothing before reuse.

INGESTION:
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

SECTION 5. -----FIRE FIGHTING MEASURES-----

UNUSUAL FIRE AND EXPLOSION HAZARDS:
When heated to decomposition, toxic fumes containing nitrogen compounds are emitted.

FIRE EXTINGUISHING MEDIA:
Carbon dioxide, dry chemical powder, or polymer foam.

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SPECIAL FIREFIGHTING INSTRUCTIONS:

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Avoid raising dust.

SECTION 6. -----ACCIDENTAL RELEASE MEASURES-----

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Avoid raising dust.

SPILL CLEANUP MEASURES:

Scoop up, sweep up, or vacuum. Avoid dust generation. Place in suitable container and hold for proper disposal. Ventilate area and wash spill site after material pickup is complete.

SECTION 7. -----HANDLING AND STORAGE-----

HANDLING AND STORAGE REQUIREMENTS:

Avoid direct light. Store in a cool, dry place. Avoid dust generation. Avoid inhalation. Use dust mask. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Wash clothing after use.

SECTION 8. -----PERSONAL PROTECTION/EXPOSURE CONTROLS-----

EYE/FACE PROTECTION: Wear safety goggles. Wear coverall chemical splash goggles and face shield when possibility exists for eye and face contact from airborne material. Eye bath available.

SKIN PROTECTION: Follow site specific work practice instructions for protective equipment. Safety shower available.

RESPIRATORY PROTECTION: NIOSH/MSHA approved air purifying respirator.

ENGINEERING CONTROLS: Mechanical exhaust required.

SECTION 9. -----PHYSICAL AND CHEMICAL PROPERTIES-----

PHYSICAL STATE: Powder

MELTING POINT: 61°C - 66°C

BOILING POINT: N/A

SPECIFIC GRAVITY: N/A

APPEARANCE: Fine, white crystals

ODOR: Faint fish like odor.

OTHER:

SECTION 10. -----STABILITY AND REACTIVITY-----

INCOMPATIBILITIES:

Avoid strong light and heat. Avoid acids, bases, oxidizing and reducing agents. Avoid raising dust.

HAZARDOUS DECOMPOSITION:

Toxic fumes of carbon monoxide, carbon dioxide and nitrogen oxides.

CHEMICAL STABILITY:

Stable.

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HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

SECTION 11. -----TOXICOLOGICAL INFORMATION-----

TOXICOLOGICAL EFFECTS:

May be harmful by inhalation, ingestion, or skin absorption. May cause eye irritation. May cause skin irritation.
Toxicity: LD50 (Mice): 4000 mg/kg

SECTION 12. -----ECOLOGICAL INFORMATION-----

ECOLOGICAL EFFECTS:

Data not yet available.

SECTION 13. -----DISPOSAL INFORMATION-----

WASTE MANAGEMENT PROCEDURES:

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and Local environmental regulations.

SECTION 14. -----TRANSPORT INFORMATION-----

TRANSPORTATION INFORMATION:

Not considered hazardous for transportation not listed by DOT, or IATA.

-----DOT (DOMESTIC SURFACE)-----

PROPER SHIPPING NAME:
HAZARD CLASS OR DIVISION:
UN / NA NUMBER:
PACKING GROUP:
DOT PRODUCT RQ lbs (kgs):
HAZARD LABEL (s):
HAZARD PLACARD (s):

-----IMO / IMDG CODE (OCEAN)-----

PROPER SHIPPING NAME:
HAZARD CLASS DIVISION NUMBER:
UN NUMBER:
PACKAGING GROUP:
HAZARD LABEL (s):
HAZARD PACKARD (s):

-----ICAO / IATA (AIR)-----

PROPER SHIPPING NAME:

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HAZARD CLASS DIVISION NUMBER:
UN NUMBER:
SUBSIDIARY RISK:
PACKING GROUP:
HAZARD LABEL (s):
RADIOACTIVE?:
PASSENGER AIR - MAX QTY:
PASSENGER PACKING INSTRUCTION:
CARGO AIR - MAX QTY:
CARGO AIR PACKAGING INSTRUCTION:

SECTION 15. -----REGULATORY INFORMATION-----

REGULATORY INFORMATION:

Regulatory Listings: AICS (Australia); DSL (Canada); EINECS (EEC); ENCS (Japan); ECL (Korea); PICCS (Philippines); TSCA (USA),

SECTION 16. -----ADDITIONAL INFORMATION-----

ADDITIONAL INFORMATION:

N/A

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Hampford Research, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. Hampford Research grants permission to make unlimited paper copies for internal use only.

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