

MATERIAL SAFETY DATA SHEET

TORPEDO

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Issue Date: 9/04

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

TORPEDO

Common Name: Surfactant (Adjuvant).

Chemical Description: Liquid mixture of lecithin, methyl esters of fatty acids and alcohol ethoxylate.

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

Manufactured By

Monterey AgResources

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. HAZARDOUS INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
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This material is not known to contain any chemical listed as a carcinogen by OSHA, IARC or the National Toxicology Program (NTP) at a concentration greater than 0.1%.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Clear, yellow liquid with slightly sweet odor. Causes moderate eye irritation. Avoid contact with strong oxidizers such as hydrogen peroxide, bromine and chromic acid. Burning may result in formation of carbon oxides. Not D.O.T. regulated.

HEALTH: 1 REACTIVITY: 0 FLAMMABILITY: 0 ENVIRONMENT: 0
(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
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Flash Point:	> 200°F.
Test Method:	ASTM-D56
LEL Flammable Limits:	Not available.
UEL Flammable Limits:	Not available.
Autoignition Temperature:	Not available.
Flammability Classification:	Nonflammable.
Known Hazardous Products of Combustion:	None.
Properties that Initiate/Contribute to Intensity of Fire:	None.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	None known.
Potential For Release of Flammable Vapors:	None.
Unusual Fire & Explosion Hazards:	Burning may result in formation of carbon oxides.
Extinguishing Media:	Foam, CO ₂ , dry chemical, water.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and goggles. Avoid smoke inhalation. Contain any liquid runoff.

SECTION 6.	SPILLS AND LEAKS
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Containment:	Prevent product spillage from entering drinking water supplies or streams.
Clean Up:	Collect liquid or absorb onto absorbent material and package for disposal.
Evacuation:	Not necessary.

SECTION 7.	STORAGE AND HANDLING
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Storage:	Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures between 40°F and 120°F. Do not store near food or feeds. Do not stack pallets more than two (2) high.
Transfer Equipment:	Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.
Work/Hygienic Practices:	Causes moderate eye irritation. May be harmful if swallowed, inhaled or absorbed through skin. Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse. Do not contaminate feed and foodstuffs.

SECTION 8.	PERSONAL PROTECTIVE EQUIPMENT
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Eyes:	Not required, but use of chemical dust/splash goggles or full-face shield to prevent eye contact is recommended. As a general rule, do not wear contact lenses when handling.
Skin:	Wear long sleeved shirt, long pants, shoes plus socks and chemical resistant gloves made of any waterproof material when mixing or handling concentrate.
Respiratory:	Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).
Ventilation:	Recommended but no TLV established.

SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance:	Clear, yellow liquid.
Odor:	Slightly sweet; not offensive.
pH:	5.79
Vapor Pressure:	Not determined.
Vapor Density (Air = 1):	Not determined.
Boiling Point:	Not determined.
Freezing Point:	Not determined.
Water Solubility:	Forms emulsion.
Density:	7.8 lbs./gal.
Evaporation Rate:	Slower than n-butyl acetate.
Viscosity:	Not determined.
% Volatile:	Not determined.
Octanol/Water Partition Coefficient:	Not determined.
Saturated Vapor Concentration:	Not determined.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions To Avoid:	Avoid contact with strong oxidizers such as hydrogen peroxide, bromine and chromic acid.
Incompatibility:	Not determined.
Hazardous Decomposition Products:	Burning may result in formation of carbon oxides.
Hazardous Polymerization:	Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTSAcute Effects:

Eyes:	Mild irritant. May cause redness.
Skin:	Mild irritant, especially from prolonged exposure. May cause redness.
Ingestion:	May cause stomach cramps and/or nausea.
Inhalation:	None expected but inhalation of aerosol mist may cause mild irritation of nasal mucous membranes.

Subchronic Effects: None known.

Chronic Effects: None known.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition:	Not known.
Toxicity to Fish and Invertebrates:	Not known.
Toxicity to Plants:	Not known.
Toxicity in Birds:	Not known.

SECTION 13. DISPOSAL

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents in accordance with state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal.

SECTION 14. TRANSPORTATION

D.O.T. Proper Shipping Description:	Not D.O.T. Regulated.
OTHER Shipping Information:	Adhesives, Adjuvants, Spreaders or Stickers, Liquid. NMFC Item 4612, LTL Class 60

SECTION 15. REGULATORY INFORMATION

CERCLA: None.

SARA TITLE III, Section 313 Toxic Chemicals: None.

PROPOSITION 65 (CA): 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 AgResources 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 AgResources assumes legal responsibility.