

MATERIAL SAFETY DATA SHEET

EOS® AquaBupH™

D.O.T. HAZARD CLASSIFICATION: NONE

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HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	J PPE

DATE OF PREPARATION

9/18/2006, Rev. 8/13/2008

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: **EOS® AquaBupH™**
PRODUCT CLASS: **Vegetable Oil-Based Emulsion With Alkaline Buffer**
CAS NUMBER: **Mixture**

SECTION II - COMPOSITION

<u>COMPONENT(S)</u>	<u>% BY WEIGHT</u>	<u>CAS NO.</u>	<u>EXPOSURE LIMIT</u>	
			<u>OSHA PEL</u>	<u>ACGIH TLV - TWA</u>
Soybean Oil	34 to 50	8001-22-7	15 mg/m3	NA
Food Additives (Proprietary)	5 to 10	Mixture	-	-
Soluble Substrates	2 to 4			
Alkaline Buffering	10 to 15	Mixture	-	-
Water	Balance	-	-	-

SECTION III - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Product contains mechanical irritants to skin, eyes and respiratory tract. Avoid contact with skin. Wear protective clothing including gloves, NIOSH approved goggles or safety glasses with side shields..

EFFECTS OF ACUTE EXPOSURE: Ingestion generally causes purging of the bowels; however, swallowing large amounts may lead to bowel obstruction. . If excessive amounts are ingested, it can cause CNS depression and respiratory paralysis which can be fatal.

EFFECTS OF CHRONIC EXPOSURE: No data available.

SIGNS AND SYMPTOMS OF EXPOSURE:

EYE CONTACT: redness, tearing, conjunctivitis

SKIN CONTACT: drying, chapping, dermatitis

MEDICAL CONIDTIONS GENERALLY AGGRAVATED BY EXPOSURE: As with any exposure to any environment without adequate personal protection, inhalation may aggravate any pre-existing respiratory disease; prolonged/frequent skin contact may lead to dermatitis.

SECTION IV - FIRST AID MEASURES

INHALATION: Dried product may result in nuisance dust. If dust is inhaled, Remove to fresh air immediately.

EYE CONTACT: Do not rub eyes. Wash eyes under slowly running water for at least fifteen minutes, making sure eyes are held wide open and moved slowly in every direction. Ensure no solid particles remain in creases of eyelids. If so, continue to wash. If irritation persists, consult an ophthalmologist.

SKIN CONTACT: Remove from source of irritation. Remove contaminated clothing and wash affected area thoroughly with a mild soap and water. Wash contaminated clothing before reusing.

INGESTION: Treat symptomatically. If bowel obstruction occurs, immediately consult a physician.

SECTION V - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >300°F

FLAMMABLE LIMITS: NOT ESTABLISHED

EXTINGUISHING MEDIA: Dry chemical, foam, Halon, CO₂, water spray (fog). Water stream may splash burning liquid and spread fire.

SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool drums exposed to fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Firefighters should use self-contained breathing apparatus to avoid exposure to smoke and vapor.

SECTION VI - ACCIDENTAL RELEASES

SPILL CLEAN-UP PROCEDURES: Remove sources of ignition, ventilate enclosed spaces, contain spill to smallest area possible. Stop leak if possible. Pick up small spills with absorbent materials such as paper towels, "Oil Dry", sand or dirt. Recover large spills for salvage or disposal. Wash hard surfaces with safety solvent or detergent to remove remaining oil film. Greasy nature will result in a slippery surface.

SECTION VII - HANDLING & STORAGE

Store EOS® AquaBupH™ in closed containers between 50°F (10°C) and 120°F (48.8°C). Keep away from oxidizing agents, excessive heat, and ignition sources. Store and use in well ventilated areas. Do not store or use near heat, spark, or flame. Do not puncture, drag, or slide container. Drum is not a pressure vessel; never use pressure to empty. Consumption of food and beverages should be avoided in work area where product is being used. After handling, wash hands and face thoroughly with soap and water before eating, drinking or smoking.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: If vapors or mists are generated, wear a NIOSH approved organic vapor/mist respirator.

PROTECTIVE CLOTHING: Safety glasses, goggles, or face shield recommended to protect eyes from mists or splashing. PVC coated gloves recommended to prevent skin contact.

OTHER PROTECTIVE MEASURES: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

Boiling Point:	>212°F
Specific Gravity (H ₂ O = 1):	1.17 to 1.22
pH	~8.5 – 9.5 saturated solution
Vapor Pressure:	Not Established
Vapor Density:	Heavier than Air
Evaporation Rate:	Not Established
Solubility In Water:	Miscible
Physical State	Oil-In-Water Emulsion
Appearance and Odor:	Off-White Liquid with Slight Vegetable Oil Odor

SECTION X - STABILITY & REACTIVITY

GENERAL: This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: Strong oxidizing agents and strong acids

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion produces carbon monoxide, carbon dioxide along with thick smoke.

SECTION XI - TOXICOLOGICAL INFORMATION

Composed of Food-Grade ingredients (e.g., vegetable oil that is generally recognized as safe (GRAS)

Name of Toxicologically Synergistic Products: None known.

Irritancy of Product: No data available.

Considered Carcinogenic By: NTP- No IARC - No OSHA - No

SECTION XII - ECOLOGICAL INFORMATION

Contains biodegradable ingredients with alkaline buffering for promoting bacterial activity in soil and groundwater.

SECTION XIII - DISPOSAL CONSIDERATIONS

Dispose according to local, state/provincial and federal regulations.

If discarded in its purchased form, this product would not be classified as a hazardous waste either by listing or characterization.

SECTION XIV - TRANSPORTATION INFORMATION

DOT Shipping Name: Not regulated under DOT

DOT Classification: Not applicable

NMFC (National Motor Freight Classification):

Identification Number: 145100

Shipping Classification: 65

Special Shipping Information: No special precautions. Shippers and transporters may need to meet packaging and transportation requirements for certain oils and respective quantities under CFR 49 § 130.

SECTION XV - REGULATORY INFORMATION

CERCLA Hazardous Substance: No

SARA Title III:

Under the provisions of Title 111, Section 311/312 of the Superfund Amendments and Reauthorizations Act, this product is classified into the following hazard categories: **None**

Section 313 – Emissions Reporting: This product does **not** contain Section 313 reportable ingredients.

Section 302- Extremely Hazardous Substances: This product is not listed.

SECTION XVI - OTHER INFORMATION

NFPA Ratings:	Health: 1	Flammability: 0	Reactivity: 0	Other:
HMIS Ratings:	Health: 1	Flammability: 0	Reactivity: 0	PPE: J

Safety & Risk Phrases:

R 20/22	Harmful by inhalation and if swallowed
R 36/37/38	Irritating to eyes, respiratory system and skin
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36	Wear suitable protective clothing
S39	Wear eye / face protection

The information contained herein is based on available data and is believed to be correct. However, EOS Remediation, Inc. makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained thereof.

EOS® AquaBupH™

This information and product are furnished on the condition that the person receiving them shall make his/her own determination as to the suitability of the product for his/her particular purpose.