

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** FBN HighSurf MSO  
**DISTRIBUTOR:** FBN Inputs, LLC  
**ADDRESS:** 388 El Camino Real  
 San Carlos, CA 94070  
**EMERGENCY CHEMTREC PHONE:** US: 1-800-424-9300 International: 1-202-483-7616  
**CHEMICAL NAME:** MSO/Surfactant Blend  
**CHEMICAL FAMILY:** MSO/Surfactant  
**CHEMICAL FORMULA:** High Surfactant MSO  
**PRODUCT USE:** Adjuvant

**SECTION 2: HAZARDOUS INGREDIENTS**
**GHS Ratings:**

Toxicity Category  
 Skin corrosion/ irritation      Category 2  
 Eye damage/ irritation      Category 2B  
 Acute Toxicity      Category 4


**Signal Word: WARNING**
**GHS Hazards**

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.

**GHS Precautions**

P102 Keep out of reach of children.  
 P103 Read label before use.  
 P233 Keep container tightly closed.  
 P234 Keep only in original container.  
 P261 Avoid breathing dust, fume, gas, mist, vapors or spray.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product  
 P280 Wear protective gloves, protective clothing, eye protection and face protection.  
 P301+312 IF SWALLOWED: Call a POISON CENTER, doctor or physician if you feel unwell.  
 P302+352 IF ON SKIN: Wash with plenty of soap and water.  
 P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do then continue rinsing cautiously.  
 P337+313 If eye irritation persists: Get medical advice or attention.  
 P332+313 If skin irritation persists: Get medical advice or attention.  
 P362 Take off contaminated clothing and wash it before reuse.

**SECTION 3: HAZARDS IDENTIFICATION**

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>
Methylated Seed Oil	Mixture	60%
Emulsifier Blend	Proprietary	40%

**NOTE:** Product does NOT contain any pesticides or pest control agents.

**SECTION 3 NOTES:** These specific chemical identities and or exact percentage (concentration) of composition have been withheld as a trade secret.

**CARCINOGENICITY**

**OSHA:** No      **ACGIH:** No      **NTP:** No      **IARC:** No      **OTHER:** No

**SECTION 4: FIRST AID MEASURES**

*Have the product container with you when calling a poison control center or doctor, or going for treatment.*

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present, after the first 5 minutes, then continue cautiously rinsing eye. If eye irritation persists: Get medical advice or attention.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing and wash it before reuse. Wash skin with plenty of soap and water for several minutes. If skin irritation persists: Get medical advice or attention.

**IF SWALLOWED:** Call a POISON CENTER, doctor or physician if you feel unwell. Unless advised otherwise by a poison control center or doctor, have person rinse mouth with water, if able. Do not give anything by mouth to an unconscious person.

**IF INHALED:** If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth to mouth if possible.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:**

**SECTION 4 NOTES:** None

**SECTION 5: FIRE FIGHTING MEASURES**

**NFPA HAZARD CLASSIFICATION**

**HEALTH:** 1      **FLAMMABILITY:** 1      **REACTIVITY:** 0      **OTHER:** -

**IN CASE OF FIRE:** Use carbon dioxide or dry chemical for small fires and water fog or foam (alcohol, polymer, or ordinary) for large fires. Water stream may spread flames.

**SPECIAL FIRE FIGHTING PROCEDURES:** Use alcohol-type or universal-type foams on larger fires. Smaller fires should be extinguished with carbon dioxide or dry chemical. Do not use water or foam directly on the fire. Use self-contained breathing apparatus with fighting any fire in an enclosed area.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Do not use water or foam directly on the fire.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None

**SECTION 5 NOTES:** None

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**ACCIDENTAL RELEASE MEASURES:** Surround and absorb all spills. Material should be collected and disposed in proper manner. Dike the area to prevent spill from spreading. Soak up spill with a suitable absorbent such as clay, sawdust or kitty litter. Sweep up absorbed material and place in a chemical waste container for disposal. Wear suitable protective equipment.

**SECTION 6 NOTES:** None

**SECTION 7: HANDLING AND STORAGE**

**HANDLING** Keep out of reach of children. Read label before use. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Wear protective gloves, protective clothing, eye protection and face protection.

**STORAGE:** Store in a cool well-ventilated place. Keep in original container tightly closed. Do not reuse empty container. Do not store with food, feed, or other material to be used or consumed by humans or animals. Do not contaminate water supplies. For optimal storage, store between 40° and 90° F.

**SECTION 7 NOTES:** None

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

<b>VENTILATION:</b>	Normal room ventilation (mechanical) or outdoor use should be satisfactory.
<b>RESPIRATORY PROTECTION:</b>	Wear a NIOSH/OSHA approved respirator, approved for use with propionic acid, if necessary.
<b>EYE PROTECTION:</b>	Chemical goggles and face shield.
<b>SKIN PROTECTION:</b>	Impervious gloves, long-sleeved shirts and pants.
<b>OTHER PROTECTIVE CLOTHING OR EQUIPMENT:</b>	Eye wash and safety shower should be easily accessible.
<b>WORK HYGIENIC PRACTICES:</b>	Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse.
<b>EXPOSURE GUIDELINES:</b>	If exposed, see section 4 for acute exposure first aid.
<b>SECTION 8 NOTES:</b>	None

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	Amber	<b>FLAMMABLE LIMITS IN AIR, UPPER:</b> Unknown (% BY VOLUME)	<b>LOWER:</b> Unknown
<b>ODOR:</b>	Ester	<b>VAPOR PRESSURE (mmHg):</b>	@ Unknown F: Unknown C: Unknown
<b>ORDER THRESHOLD:</b>	Not known	<b>VAPOR DENSITY (AIR = 1):</b>	@ Unknown F: Unknown C: Unknown
<b>PHYSICAL STATE:</b>	Liquid	<b>RELATIVE DENSITY:</b>	0.918 to 0.928
<b>pH AS SUPPLIED:</b>	Not applicable	<b>EVAPORATION RATE:</b>	Unknown
<b>pH (Other):</b>		<b>BASIS (butyl acetate=1):</b>	
<b>INITIAL BOILING POINT:</b>	F: Unknown C: Unknown	<b>SOLUBILITY IN WATER:</b>	Emulsifies in water
<b>BOILING POINT RANGE:</b>	F: Unknown C: Unknown	<b>PARTITION COEFFICIENT: (n-octanol/water):</b>	Unknown
<b>MELTING POINT:</b>	F: Unknown C: Unknown	<b>AUTO-IGNITION TEMPERATURE:</b>	Unknown
<b>FREEZING POINT:</b>	F: Unknown C: Unknown	<b>DECOMPOSITION TEMPERATURE:</b>	Unknown
<b>FLASH POINT:</b>	F: >200 C: >93	<b>VISCOSITY:</b>	@ Unknown F: Unknown C: Unknown
<b>METHOD USED:</b>	PMCC		
<b>FLAMMABILITY (solid, gas):</b>	Can burn		

**SECTION 9 NOTES: Values are not product specifications.**

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

**SECTION 10: STABILITY AND REACTIVITY**

STABILITY: Stable  Unstable

CONDITIONS TO AVOID (STABILITY): Extreme temperatures

INCOMPATIBILITY (MATERIAL TO AVOID): Strong Oxidizers.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Oxides

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None known

SECTION 10 NOTES: None

**SECTION 11: TOXICOLOGICAL INFORMATION**

TOXICOLOGICAL INFORMATION:  
MIXTURE TOXICITY  
Acute oral LD50 (rat): >5000mg/kg  
Acute dermal LD50 (rabbit): >2000mg/kg  
Inhalation LC50 (rat): >0.05mg/L

SECTION 11 NOTES: None

**SECTION 12: ECOLOGICAL INFORMATION**

ECOLOGICAL INFORMATION: Not available

ECOTOXICITY: Not available

BIOACCUMULATIVE POTENTIAL: Not available

MOBILITY IN SOIL: Not available

OTHER ADVERSE EFFECTS: Not available

SECTION 12 NOTES: None

**SECTION 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Do not contaminate water, food or feed by storage or disposal. Dispose of contents in container to an approved waste disposal facility in accordance with all federal, state and local regulations.

CONTAINER DISPOSAL: Triple rinse (or equivalent) adding rinse water to application tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by local regulations.

RCRA HAZARD CLASS: None

SECTION 13 NOTES: None

**SECTION 14: TRANSPORT INFORMATION**

**U.S. DEPARTMENT OF TRANSPORTATION**

DOT Shipping Description: Not Regulated

U.S. Surface Freight Classification: ADHESIVES, ADJUVANTS, SPREADERS OR STICKERS (NMFC 4610; CLASS: 60) Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

OTHER AGENCIES: None

SECTION 14 NOTES: None

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**SECTION 15: REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS**

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** Mixture not listed

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** Not Regulated

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):** Not Regulated

**311/312 HAZARD CATEGORIES:** None

**313 REPORTABLE INGREDIENTS:** None

**INTERNATIONAL REGULATIONS:** None

**SECTION 15 NOTES:** None

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**SECTION 16: OTHER INFORMATION**

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**OTHER INFORMATION:** None

**DISCLAIMER:**

The recommendation for safe handling and protection procedures is believed to be generally suitable for the standard uses of this compound. However, each user should identify his intended uses of this material and determine whether they are appropriate. All data included in this document is released as typical values and should not be utilized to determine the suitability of this material for a particular use or purpose. No warranty, either expressed or implied, is hereby made, nor do we give permission, inducement, or recommendations to practice any patented invention without a license. All data is offered for consideration, investigation and verification purposes only.