



**DESERT  
BIOLOGICAL**

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## MATERIAL SAFETY DATA SHEET

1. PRODUCT NAME: EMULGEN 911  
SUPPLIER NAME: DESERT BIOLOGICALS INC.  
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2. CATALOG#: 2845  
CAS: 96827-63-3

**[3.HAZARDS IDENTIFICATION]****MOST IMPORTANT HAZARDS** :**ADVERSE HUMAN HEALTH EFFECTS** : Irritating to eyes.**ENVIRONMENTAL EFFECTS** : To the best of our investigation, no information available.**PHYSICAL AND CHEMICAL HAZARDS** : Combustible.  
Be careful to fire.**CLASS NAME FOR MSDS IN JAPAN** : Not applicable**[4.FIRST-AID MEASURES]****IN CASE OF EYE CONTACT** : Immediately hold eyelids open and flush with a stream of water for at least 15 minutes. If necessary seek medical attention.**IN CASE OF SKIN CONTACT** : Wash material off the skin with plenty of water and soap. If necessary seek medical attention.**IN CASE OF INHALATION** : Remove person to fresh air. If necessary seek medical attention.**IN CASE OF INGESTION** : Seek medical attention. Never give anything by mouth to an unconscious person.  
If possible, rinse out mouth and give one or two glasses of water or milk to drink.**[5.FIRE-FIGHTING MEASURES]****EXTINGUISHING MEDIA** : Powder, alcohol-resistant foam, water spray, carbon dioxide,sand**NOT SUITABLE EXTINGUISHING MEDIA** : No information available

SPECIFIC HAZARDS	: No information available
SPECIFIC METHODS	: Keep away from sources of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible.
PROTECTION OF FIREFIGHTERS	: Use goggles in combination with dust mask, and another protections as appropriate to situation.
<b>[6.ACCIDENTAL RELEASE MEASURES]</b>	
PERSONAL PRECAUTIONS	: Use goggles and protective gloves. Large spills : Remove person to safety. Ensure adequate ventilation.
ENVIRONMENTAL PRECAUTIONS	: Be careful not to discharge into the drains, surface waters or ground water directly.
METHODS FOR CLEANING UP	: Small spills: Absorb spills with sand, inert absorbent, waste cloth or sawdust. Then wipe up remainder in waste cloth. Large spill: Dike spills and dispose of in safe area.
PREVENTION OF SECONDARY HAZARDS	: Keep away from sources of ignition and prepare extinguishing media.
<b>[7.HANDLING AND STORAGE]</b>	
<b>HANDLING</b>	
TECHNICAL MEASURES	: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
PRECAUTIONS	: Keep away from source of ignition.
SAFE HANDLING ADVICE	: Handle in well-ventilated areas. Use safety glasses and protective gloves as appropriate to situation. Wash hands and face and gargle after handling.
<b>STORAGE</b>	
STORAGE CONDITIONS	: Keep container tightly closed. Protect from sun. Store in a dark and well-ventilated place. Keep away from source of ignition.
PACKAGING MATERIALS	: No information available
<b>[8.EXPOSURE CONTROLS/PERSONAL PROTECTION]</b>	
ENGINEERING MEASURES	: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use an adequate ventilation.
<b>LIMIT VALUES</b>	
ACGIH(TLV)	: Not established
OSHA(PEL)	: Not established
<b>PERSONAL PROTECTIVE EQUIPMENT</b>	
RESPIRATORY PROTECTION	: Use as appropriate to situation.
HAND PROTECTION	: Rubber gloves
EYE PROTECTION	: Safety goggles
SKIN AND BODY PROTECTION	: Full-body suit

HYGIENE MEASURES : No information available

[9. PHYSICAL AND CHEMICAL PROPERTIES]

PHYSICAL STATES

FORM : Liquid(at 20C)  
 COLOUR : Pale yellow  
 ODOUR : Slightly characteristic odour  
 pH : 5 ( 5% solution )

SPECIFIC TEMPERATURES/TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

BOILING POINT : No data available  
 MELTING POINT : 13 °C ( 55.4 °F )  
 DECOMPOSITION TEMPERATURE : No data available  
 FLASH POINT : 297 °C ( 566.6 °F ) ( CLEVELAND open cup method )  
 AUTOIGNITION TEMPERATURE : No data available

EXPLOSION PROPERTIES

EXPLOSION : UPPER LIMIT: No data available LOWER LIMIT : No data available  
 VAPOUR PRESSURE : No data available  
 VAPOUR DENSITY : No data available  
 DENSITY : 1.064 g/mL ( 40 °C ) ( 104 °F )  
 1.057 g/mL ( 50 °C ) ( 122 °F )  
 1.05 g/mL ( 60 °C ) ( 140 °F )

SOLUBILITY

WATER SOLUBILITY : Soluble  
 SOLVENT SOLUBILITY : Soluble in ethylene glycol  
 Soluble in isopropyl alcohol  
 OCTANOL/WATER PARTITION COEFFICIENT : No data available  
 OTHER DATA : No data available

[10. STABILITY AND REACTIVITY]

STABILITY : Stable in general.  
 HAZARDOUS REACTIONS : Stable in general.  
 CONDITIONS TO AVOID : No information available  
 MATERIALS TO AVOID : No information available  
 HAZARDOUS DECOMPOSITION PRODUCTS : No special hazardous and harmful combustion or decomposition products .  
 OTHERS : No information available

[11. TOXICOLOGICAL INFORMATION]

ACUTE TOXICITY : Oral, rat, LD50 : 2590 uL/kg (Data on Polyoxyethylene(9) nonylphenyl ether)(1)



CORROSIVITY	: No information available
SKIN IRRITATION	: Rabbit,500mg,Open application test : Mild (Data on Polyoxyethylene(9) nonylphenyl ether)(1)
EYE IRRITATION	: Rabbit,20mg : Severe (Data on Polyoxyethylene(9) nonylphenyl ether)(1)
SENSITIZATION	: No information available
CHRONIC TOXICITY/LONG TERM TOXICITY	: No information available
CARCINOGENICITY	: No information available
IARC	: Not established
NTP	: Not established
OSHA	: Not established
MUTAGENICITY	: No information available
TERATOGENICITY	: No information available
REPRODUCTION TOXICITY	: No information available
OTHER DATA	: No information available

## [12.ECOLOGICAL INFORMATION]

MOBILITY	: No information available
PERSISTENCE/ DEGRADABILITY	: No information available
BIOACCUMULATION	: No information available
ECOTOXICITY	
AQUATIC TOXICITY	: No information available
OTHER DATA	: No information available

## [13.DISPOSAL CONSIDERATIONS]

Review "HANDLING AND STORAGE (Section 7)".  
Passed to a licensed waste contractor.

Dispose of waste in accordance with local,state and federal regulations.

## [14.TRANSPORT INFORMATION]

Follow all regulations in your country or region

UN CLASS/UN NUMBER	: Not applicable
PRECAUTIONS	: Review "ACCIDENTAL RELEASE MEASURES (Section 6)". Review "HANDLING AND STORAGE (Section 7)". Ensure containers without breakage or leakage. Ensure containers tightly fixed. Follow all regulations in your country or region. Keep away from source of ignition.

*To the best of our knowledge (Desert Biologicals), the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.- Desert Biologicals*