

## MATERIAL SAFETY DATA SHEET

## [1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : EMULGEN 913  
SUPPLIER : Desert Biologicals  
ADDRESS : 3415 S McClintock Dr Ste 105, Tempe, AZ 85282  
DIVISION : Chemical Division  
TELEPHONE NUMBER : 480-940-7480  
FAX NUMBER : N/A  
EMERGENCY : N/A  
TELEPHONE NUMBER

## [2.COMPOSITION/INFORMATION ON INGREDIENTS]

SUBSTANCE OR PREPARATION : Substance  
INGREDIENTS : Polyoxyethylene(13) nonylphenyl ether  
CAS RN : 9016-45-9  
INGREDIENTS CONTRIBUTING TO :  
None THE HAZARD

## [3.HAZARDS IDENTIFICATION]

MOST IMPORTANT HAZARDS :  
ADVERSE HUMAN HEALTH : Irritating to eyes.  
EFFECTS  
ENVIRONMENTAL EFFECTS : To the best of our investigation, no information available.  
PHYSICAL AND CHEMICAL : Combustible.  
HAZARDS : Be careful to fire.  
CLASS NAME FOR MSDS IN : Not applicable  
JAPAN

## [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 : No information available  
MEDIA

- 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.

## [6. ACCIDENTAL RELEASE MEASURES]

- 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.

## [7. HANDLING AND STORAGE]

## HANDLING

- 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.

## STORAGE

- 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

## [8. EXPOSURE CONTROLS/PERSONAL PROTECTION]

- ENGINEERING MEASURES : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.  
Use an adequate ventilation.

## LIMIT VALUES

- ACGIH(TLV) : Not established
- OSHA(PEL) : Not established

## PERSONAL PROTECTIVE EQUIPMENT

- 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)

LOCAL EFFECTS

- 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.

[15.REGULATORY INFORMATION]

Follow all regulations in your country or region

- INVENTORIES : ENCS(Japan) 7-172

TSCA(USA)	Yes
EINECS(EU)	Yes(Polymer)
AICS(Australia)	Yes
DSL(Canada)	Yes
ECL(Korea)	KE-26244
PICCS(Philippines)	Yes

KAO Corporation is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

[16. OTHER INFORMATION]  
REFERENCE

- : -Safety data sheet for chemical products - Part 1: Content and order of sections(ISO 11014-1)
- International Chemical Safety Cards(ICSC) (Compiler's Guide)(1994)

(1)Registry of Toxic Effects of Chemical Substances NIOSH

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