Material Safety Data Sheet

RXSOL ZYME BOE (RXSOL-15-1700-020)

1. Product and Company Identifaction

Product Name	: ZYME BOE
Part Number	: RXSOL-15-1700-020

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDI

STOCK POINT ::: Mumbai, Kandla, Chennai, Visakhapatnam, Kolkata, Fujairah

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2. Composition / informationon ingredients

Name of Substance	Cas Number	Wt.%
Citric Acid	77-9-29	1 - 5 %
sodium xylenesulfonate	1300-72-7	1 -5 %
Synergistic Microorganisms.	Proprietory	90 - 100

3. Hazards Identification

Signal Word	Not Applicable
Hazard Statements	This Product is not Hazardous.
Precautionary statements - prevention	This Product is not Hazardous.
Precautionary statements - response	This Product is not Hazardous.

4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
SkinContact	Flush skin with water after contact. Wash contaminated clothing before reuse.
Inhalation:	If inhaled, If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Ingestion:	Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor..

Notes to Physicians	Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400-ml water and mix thoroughly. Administer 5 ml/kg or 350 ml for an average adult. Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances. Activated charcoal may induce vomiting, but may be given after emesis or lavage to absorb toxic additives. Steroid therapy in mild to moderate cases does not improve outcome. Bacterial pneumonia often occurs after exposure, but prophylactic antibiotics are not indicated and should be reserved for documented bacterial pneumonia.

5. Fire-fighting Measures

Flammability	Flammable.
Flash Point	60°C
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water Spray, Foam, Dry Chemical, CO2.
Protective Equipment	Use personal protective equipment.
Advice for firefighters	Wear self-contained breathing apparatus. Wear full protective equipment.

6. Accidental Release Measures

Small Spillage	Soak up with sawdust, sand, oil dry or other absorbent material.
Personal Protection	Remove persons to safety. Wear breathing apparatus if exposed to vapours/dust/spray/gases.
Enviromental Precaution	Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.
Methods and materials for containment and cleaning	Bbefore proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Soak up with sawdust, sand, oil dry or other absorbent material. Remove source of heat, sparks, flame, impact, friction, or electricity. Dike spill. Prevent material from entering sewers, waterways, or low areas. Spills are very slippery and should be cleaned up promptly

7. Handling and Storage

Handling	Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Keep away from heat, sparks and flames.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store in accordance with National Fire Protection Association recommendations.
Advice on general occupational hygiene	Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas.

8. Exposure controls and personal protection

Engineering Controls:	Use only with adequate ventilation. Keep container tightly closed.
Personal Protection	Eye/Face Protection : Wear coverall chemical splash goggles or safety glasses. Respirators : Where there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection. Protective Clothing Where there is potential for skin contact have available and wear as appropriate Impervious gloves, apron, pants, hood and jacket.
Exposure Limits:	**Heavy Aromatic Naphtha**: PEL (OSHA) .....None established TLV (ACGIH) .....None established AEL* (Innospec Fuel Specialties) .....50 ppm, 300 mg/m3, 8 hr, TWA **Naphthalene:** PEL (OSHA).....10 ppm, 50 mg/m3, 8 hr. TWA TLV (ACGIH).....10 ppm, 52 mg/m3, 8 hr TWA, Skin; A4 STEL 15 ppm, 79 mg/m3, A4 AEL* (Innospec Fuel Specialties) .....None established **1,2,4-trimethyl benzene :** PEL (OSHA) .....140 mg/m3, 8 hr. TWA TLV (ACGIH) .....None established AEL* (Innospec Fuel Specialties) .....20 ppm, 8 hr, TWA **2-ethylhexanoic acid** PEL (OSHA) .....25 ppm, skin TLV (ACGIH) .....20 ppm, 8 hr TWA, A3 AEL* (Innospec Fuel Specialties) .....None established
Other Protection Measure	Theskin notation following the exposure guideline refers to the potential for dermal absorption of the material. It is intended to alert the reader that inhalation may not be the only route of exposure and thatmeasures to minimize dermal exposure should be considered.



Gloves



Suit

9. Physical and chemical properties

Form	Liquid
Colour	Clear, dark, brown
Odour	Not Available
Boiling point and boiling range	168°C-195°C
Freezing Point	Not Available
Specific Gravity (20 °C	0.900 @ 60/60°F (15.6/15.6°C)
pH	Not Applicable
Density	7.49 @ 60°F (15.6°C)
Solubility in Water	Soluble
Viscosity	(cSt) 3.82
Explosive properties	Not Available
Vapour density	Not Available

10. Stability and reactivity

Recativity	None

Stability	Stable at normal temperatures and storage conditions.
Possibility of hazardous reactions	No known hazardous reactions.
Incompatible materials	None reasonably foreseeable.
Hazardous combustion products	Decomposes with heat. Hazardous decomposition products include oxides of carbon and nitrogen.
Polymerization	Will not occur.

11. Toxicological information

Heavy Aromatic Naphtha:	Inhalation 6 hour LC50..... >11.67 mg/L in rats Skin Absorption LD50 ..... >3,160 mg/kg in rabbits Oral LD50..... >5,000 mg/kg in rats.
Naphthalene:	Inhalation 15 minute LC50: .....>0.34 mg/L in rats Skin Absorption LD50: ..... 10,000 mg/kg in rabbits Oral LD50:..... ....1,780 mg/kg in rats
1,2,4-trimethyl benzene	Inhalation 4 hour LC50.....6,700 ppm in rats Skin absorption LD50.....4,320 mg/kg in rabbits Oral ALD ..... 4,500 mg/kg in rats
2-ethylhexanoic acid :	Inhalation 4 hour LC50.....4,000 ppm in rats Skin Absorption LD50 ..... 2,335 mg/kg in rabbits Oral LD50..... ..2,920 mg/kg in rats
Other information	Heavy Aromatic Naphtha is a severe skin irritant, and is an eye irritant, but is not a skin sensitizer in animals. Repeated inhalation exposures caused reduced growth rate, respiratory tract irritation, congestion in liver and spleen, changes in blood tests and equilibrium disturbances. No animal test reports are available to define carcinogenic, mutagenic, developmental or reproductive hazards. Chronic overexposure to 2-ethylhexanoic acid has been suggested as a cause of the following effects in laboratory animals and may aggravate pre-existing disorders of these organs in humans: liver, abnormalities, kidney damage, lung damage, cardiac abnormality, blood abnormalities and spleen damage. This component has produced liver and kidney effects in laboratory animals. It has also produced developmental effects in oral studies in laboratory animals including teratogenicity at maternally

12. Ecological information

Toxicity	Naphthalene : 96 hour LC50 fathead minnow: 27-42 mg/L Naphtha : 96 hour LC50, fathead minnows: 4.2 – 20.8 mg/L
Process of degradability	Causes severe skin irration and eye damage.
Bioaccumulative potential	Causes serious eye damage.
Mobility in soil	Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

13. Disposal considerations

Remarks	Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

Waste Disposal	Waste should be disposed of in according to local rule and regulation.

14. Transport information

UN Number	NA
Proper shipping name	Combustible Liquid
Special Information	Flash Point: 60.1°C
DOT Labs	Combustible Liquid
Packing group	III
Marine Pollutant	No

International Maritime Dangerous Goods Code (IMDG) : Not Regulated

15. Regulatory information

TSCA Inventory Status	Reported / Included
Title III Hazard Classifications Sections 311, 312	Acute ..... Yes Chronic ..... Yes Fire ..... Yes Reactivity ..... No Pressure ..... No
Chemical Safety Assessment	No Chemical Safety Assessment has been carried out for this substance.

16. Other information

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if **Rx Marine International** has been advised of the possibility of such damages.