

MATERIAL SAFETY DATA SHEET

OIL DEGRADING MICROBES

Date of Preparation: 1/6/2007

Manufacture

ProMicro Pty Ltd
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Material Name : Oil Degrading Microbes

Section 1 - Hazardous Ingredients

Ingredient	CAS No	%	TLV (ACGIH)
Viable microbial cultures (Largely water)	NA	gt 99%	NA
Fragrance	NA	<1%	NA
Dye	NA	<1%	NA
Sodium nitrite	7632-00-0	<1%	NA

NA = Not Available

Section 2 - Physical Data

Boiling Point	100 ^o C
Vapour pressure (mmHg at 20 ^o C)	Equiv to water
Vapour density (air = 1)	Equiv to water
Solubility in water	Completely miscible
pH	6.0 - 8.0
Specific gravity	0.99 - 1.00
Appearance and odour	Perfumed Green Liquid
NFPA rating (0.4)	Health = 1, Fire = 0, Reactivity = 0

Section 3 - Fire and Explosion Hazard Data

Flash point (and method)	NA
Autoignition temp	No Data
Flammable limits (STP)	No Data
Unusual fire and explosion hazards	None known
Extinguishing media	Water spray, carbon dioxide, dry chemical powder
Specific fire fighting protective equipment	None

Section 4 - Reactivity Data

Stability	Stable under normal conditions
Hazardous decomposition products	None
Hazardous polymerisation	Will not occur
Incompatibility (materials to avoid)	Strong acids or alkaline compounds may inactivate microbial cultures

Section 5 - Health Hazard Assessment

General : Limited toxicity data are available on this specific product.

Ingestion : No effect if ingested in small amounts. Relative to other materials a single dose of this product is rarely toxic by ingestion. Irritation of the mouth, pharynx, oesophagus and stomach can develop following ingestion.

Eye Contact : This material may cause eye irritation. Organisms used are non pathogenic but can cause infection when in contact with open wounds. These organisms are susceptible to many commonly used antibiotics.

Skin Contact : Slight redness on hands and forearms if individual has a history of dermal allergic reaction.

Skin Absorption : Systematically toxic concentrations will probably not be absorbed through the skin in man.

Inhalation : None known

Other Effects of Overexposure : None known.

FIRST AID PROCEDURES

Skin : Remove contaminated clothing and footwear. Wash material off the skin with plenty of soap and water. Wash clothing and footwear before reuse.

Eyes : Immediately flush with plenty of water for at least 15 minutes and have eyes examined and treated by medical personnel.

Ingestion : Drink water or milk to dilute. Induce vomiting only if advised by a physician.

Section 6 - Spill or Leak Procedures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED :

Where possible, flush down drain to waste treatment sewer, otherwise on small spills, use chemical absorbent and sweep up. For large spills, contain and collect.

Disposal Method : Disposal of this product or its residues must be in accordance with all local, state and federal requirements.

Section 7 - Special Protection Information

TLV or Suggested Control Value : No TLV assigned to this mixture. Minimise exposure in accordance with good hygiene practice. To maintain shelf life, avoid prolonged exposure to high or low temperatures and humidity.
Avoid temperatures above 43⁰C and keep from freezing.

Ventilation : Normal room ventilation.

Respiratory Protection : None required for recommended use. Avoid creating aerosols in poorly ventilated area.

Protective Clothing : None required.

Eye Protection : Safety glasses / goggles or face shield.

Section 8 - Special Precautions or Other Comments.

PRECAUTIONS TO BE TAKEN IN HANDLING OR STORING.

Prevent skin or eye contact. Wash hands thoroughly with soap and water after use.

The biological products contain the following types of microbes

- Bacillus subtilis
- Brezundomonas vermicularis
- Burkholderia cepacia
- Hydrocarbon utilizing Bacillus sp.
- Pseudomonas stutzeri

Each product contains multiple strains of bacteria. This bacteria produces protease, lipases and other biodegradative enzymes which bioremediates toxic organic pollutants. Some of the organisms metabolise and break down oils via various chemical pathways.

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