

NEW TECH POLYMER

SAFETY DATA SHEET

Product: BIOPOL-SPL

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Biopol - SPL
Chemical Family : Enzyme Preparation
Formula : Not Applicable
Synonyms : Not Applicable.

MANUFACTURER/SUPPLIER : **NEW TECH POLYMERS**
No. 8 RAO BHARAT SINGH MKT.,
SEC-18, OPP. SIEMENS, UDYOG
VIHAR, GURGAON,
HARYANA.
Mob NO : 09990098085
Emergency no: 0124-4207334
Contact Person: Mr. Bhupendra
EMAIL: bhupendra_ntc@yahoo.co.in

2. HAZARDS IDENTIFICATION

Ingestion : Not expected to be toxic by ingestion.
Eye Contact : May cause mild eye irritation.
Skin Contact : May cause mild skin irritation.
Inhalation : May cause mild irritation.
Potential Health Effects : Inhalation of enzyme mist/dust may cause allergic respiratory reactions, including asthma, insusceptible individuals on repeated exposure.
Aggravated Conditions : None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER : Cellulase (fungal)/ 9012-54-8
: sorbitol 50-70-4
: Sodium Benzoate532-70-1

APPROX. WEIGHT PERCENT : cellulase 3 - 5
OSHA : not listed
ACGIH : not listed

4. FIRST AID MEASURES

Ingestion : Rinse mouth with water many times. If signs of irritation or toxicity occur seek medical attention.
Skin Contact: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care.
Eye Contact: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care.
Inhalation: Remove from source of exposure. If symptoms of irritation or respiratory allergy occur, seek medical attention. Provide symptomatic/supportive care as necessary.
Notes To Physician: May cause respiratory allergy.

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5. FIRE FIGHTING MEASURES

Flash Point Method : Not Determined

Extinguishing Media : All standard firefighting media

Fire Fighting Procedures : Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Action to be taken if material is released or spilled:

Use appropriate personal protection (see section 8). Provide for sufficient ventilation. Avoid contact with product. Avoid inhalation of product. Contain and remove spilled product by mechanical means or with a vacuum cleaner equipped with a high efficiency filter. Avoid generation of aerosols.

7. HANDLING AND STORAGE

Handling: Use appropriate personal protective equipment. Avoid breathing dust/mist and contact with the skin or eyes. Do not consume food, drink or smoke while handling this material.

Storage: (See product literature for additional information.)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Use only in well ventilated area.

Respiratory Protection: Use NIOSH approved dust respirator equipped with P100 filters.

Gloves: Appropriate chemical resistant gloves should be worn.

Eyes: Safety glasses with side shields.

Other Personal Protection Data: NA

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:

°F: Not Determined °C: Not Determined

Freezing Point:

°F: Not Determined °C: Not Determined

Melting Point:

°F: Not Determined °C: Not Determined

Vapor Pressure : Not Determined

Vapor Density (Air=1) : Not Determined

Physical State : Liquid

Color : Amber

Odor : Typical odor of fermented product.

pH : 4.8 - 5.2

Specific Gravity : Not Determined

Density : Not Determined

Evaporation Rate : Not Determined

ANSI US Format

NFPA 325 –

Flash Points: °F: Not Determined °C : Not Determined

Autoignition Temp: °F: Not Determined °C: Not Determined

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9. PHYSICAL AND CHEMICAL PROPERTIES

Solubility in water: Soluble

Molecular Weight: Not Determined

10. STABILITY AND REACTIVITY

Stability Data: Stable under normal conditions

Polymerization: None anticipated

Hazardous Decomposition Products: None anticipated

Conditions to Avoid: None known

Materials to Avoid: None anticipated

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Acute Oral LD50 (mg/kg): Rat LD50 > 5,000 mg/kg (data from similar fungal cellulase)

Acute Dermal: No data.

Acute Inhalation LC50 (mg/l): No data.

Dermal Sensitization: Not expected to be a dermal sensitizer.

Subchronic Effects: In a 90-day feeding study with rats, no evidence of toxicity was seen at levels up to 50,000ppm. A NOEL can be established at 50,000 ppm. Data are based on studies with fungalcellulase.

Carcinogenicity : Not classified as a carcinogen by IARC, OSHA, or NTP.

Genotoxicity : Negative in chromosomal aberrations using human lymphocytes up to 10mg/ml with metabolic activation, and up to 5 mg/ml in the absence of metabolic activation. Not mutagenic in Ames test in the presence or absence of S9 up to 5000 ug/plate. Data are based on studies withfungal cellulase.

Reproductive/Developmental

Toxicity: Not expected to produce reproductive or developmental toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information

LC50 Freshwater species: 96-hour zebra fish LC50 = 330 mg/L (data from fungal cellulase enzyme)

LC50 Saltwater species: No data

LC50 Daphnia Magna: 48-hour NOEC = 1064 mg/L (data from similar fungal cellulase)

LC50 Algae: 72-hr freshwater alge (selesnatrum capricornutum) LC50 = 1033 mg/L (data from similar fungal cellulase)

Chemical Fate Information: Cellulase degraded an average of 92% and is considered readily biodegradable (greater than 70% degradation by day 6). Data from similar fungal cellulase.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Disposal should be made in accordance with national and local regulations.

Packaging: If empty container retains product residues, all label precautions must be observed. Transport with all closures in place. Reuse, recycle, or dispose of according to national and local regulations.

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14. TRANSPORT INFORMATION

DOT Status: Not hazardous.
DOT Shipping Name: None
DOT Reportable Quantity (lbs): Not applicable.
DOT Packing Group: Not applicable.
Harmonized Tariff Code: 3507.90.7000 (for enzymes)

15. REGULATORY INFORMATION

HAZARD RATING SYSTEMS:
HMIS (SCALE 0-4, WHERE 4=SEVERE HAZARD): Health: 2 Flammability: 1 Reactivity: 0
INVENTORY STATUS:
FEDERAL REGULATIONS
HAZARDOUS PRODUCT
COMPOSITION/CAS NUMBER /SARA 313 CHEMICALS CERCLA/SARA - Section 302 Extremely Haz
Cellulase (fungal) / 9012-54-8 / Not Listed / Not Listed
Sorbitol / 50-70-4/ Not Listed / Not Listed
Sodium Benzoate / 532-32-1/ Not Listed / Not Listed
STATE REGULATIONS:
California - Prop. 65 - Cancer and Reproductive List: Listed: NO

16. OTHER INFORMATION

ADDITIONAL INFORMATION:

The above information is based on data available to us and considered to be accurate. However, NO WARRANTY is expressed or implied regarding the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. As the information contained herein may be applied under conditions beyond our control and with which we are unfamiliar, we do not assume any responsibility for the results of its use. This information is furnished upon the condition that the persons receiving it shall make their own determinations of the effects, properties and protections which pertain to their particular conditions.

**** END OF MSDS ****

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