

MATERIAL SAFETY DATA SHEET

PBS (Plant Based Solvent)

Revised 01/01/2009

SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Chemical Technologies International Inc.
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PRODUCT: PBS (plant based solvent)

CHEMICAL: Fatty Acid Methyl Ester

SYNONYMS: Methyl Ester of Vegetable Oil

SECTION 2 – HAZARDOUS INGREDIENTS

Principle Hazardous Compound
Octylphenoxy Ploythoxy Ethanol CAS: 9002-93-1

SECTION 3 - HAZARD IDENTIFICATION POTENTIAL HEALTH EFFECTS

FIRE - (Section 311/312) None noted

TITLE III SECTION 313: Not listed

EFFECTS OF OVEREXPOSURE:

INHALATION:

Exposure via inhalation not likely

INGESTION:

No significant adverse effects are expected upon ingestion of small quantity of the product. LD50>50 ml/kg
(Albino rats for similar product)

EYE CONTACT:

Direct Eye Contact may cause Severe Irritation

SKIN CONTACT:

May cause mild Skin Irritation.

SECTION 4 - FIRST AID PROCEDURES:

SWALLOWING:

Consult a doctor.

SKIN CONTACT:

Wash affected area with soap and water. If irritation persists get medical attention.

EYE CONTACT:

Flush eyes with cool water for at least 15 minutes. If irritation persists to get medical attention.

INHALATION:

If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist get medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT & METHOD USED: > 300° F (PMCC)

FLAMMABLE LIMITS: Not Applicable

NFPA RATING: HEALTH: 1 FIRE: 1 REACTIVITY: 0

UNUSUAL FIRE & EXPLOSION HAZARDS: Rags soaked with any solvent present a fire hazard and should be stored in UL listed Containers.

General Hazard:

During a fire smoke may contain the original material in addition to toxic and or irritating compounds. Avoid heat sparks or open flame contains combustible liquid. May emit oxides carbon.

Fire Fighting Instructions:

Use dry chemical, CO2, foam, or dry chemical..

Fire fighting equipment:

Fire fighters should wear a self contained, positive pressure breathing apparatus and full protective clothing (NICS/MSHA APPROVED).

Hazardous combustion products:

Thermal breakdown of this product may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon products.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Small Spills: Wipe or mop up and dispose of in DOT approved waste container.

Large Spills: Contain by diking with soil or other non-combustible absorbent material, then dispose into DOT approved waste container. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste. Contain all spills or leaks to prevent discharge into the environment. All spills or releases should be reported to the appropriate local, state and federal agencies.

SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

The manufacturer and seller warrant that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

Keep away from children.

Store away from oxidizing materials

Use with adequate ventilation.

Avoid eye contact.

Avoid breathing mist.

Keep container closed.

Do not take internally.

SECTION 8 – EXPOSURE / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

PEL: NO OSHA PEL TLV: NO ACGIH TLV

CONTROL MEASURES:

Adequate ventilation

RESPIRATORY PROTECTION:

Under normal conditions, respirator is not normally required

PROTECTIVE CLOTHING:

Impervious gloves

EYE PROTECTION:

Safety glasses, Goggles

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: Over 600°F at 760 mm Hg pressure

VAPOR PRESSURE: 0.88 mm Hg at 68°F

SPECIFIC GRAVITY: 0.882 (at 25 C)

SOLUBILITY IN WATER: Miscible

APPEARANCE AND COLOR: Light Yellow Liquid

ODOR: Faint Fatty Odor

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: None known.

MATERIALS TO AVOID: Strong oxidizers, acids, and alkalis

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂.

CONDITIONS TO AVOID: None known.

SECTION 11 – TOXICOLOGICAL INFORMATION

No toxicological studies of this compound are available however listed are results of studies available for component listed in section 2.

ACUTE TOXICITY

LD50 Male Rat 500mg / Kg

IRRITATION / CORROSION

SKIN Rabbit – Mild 24 hr

EYE Rabbit – Severe Irritation

SECTION 12 – ECOLOGICAL INFORMATION

ENVIRONMENTAL PRECAUTIONS:

Avoid uncontrolled releases of this material to environment.

SPILL OR LEAK PRECAUTIONS:

Contain spilled material. Transfer to secure containers. Where necessary, collect using absorbent material. Prevent entry into waterways, sewers, or basements or confined areas.

WASTE DISPOSAL:

Dispose of according to federal, state and/or local requirements.

SECTION 13 – DISPOSAL PRACTICES

Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains, sanitary sewers or any body of water. All disposal methods must be in compliance with all federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

SECTION 14 – TRANSPORTATION INFORMATION

Consult 49 CFR to assure compliance with all applicable federal, state/provincial and local laws and regulations that may apply to you.

SECTION 15 – REGULATORY INFORMATION

DOT CLASSIFICATION: Class 65

DOT PROPER SHIPPING NAME: Fatty Acid Ester

OTHER REGULATORY REQUIREMENTS: Listed in TSCA inventory

SECTION 16 – OTHER INFORMATION

All information appearing herein is based upon data obtained from the manufacturer and /or recognized technical sources of each individual component. While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CTI's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.