

SAFETY DATA SHEET



This SDS complies with GHS REVISION 5, OSHA 29CFR 1910.1200

Section 1: Chemical Product and Company Identification

Product Name: Oil Spill Eater II (OSE II)
Product Use: Bioremediation product that converts hydrocarbons, chlorinated hydrocarbons, and most organic based material or waste to CO₂ and H₂O

Distributor's Name: Pantheon Enterprises, Inc.
Address: 225 West Deer Valley Road
Phoenix, AZ 85027 USA
Telephone Number: 623-780-2296
Toll Free: 1-888-608-7888
Fax: 623-516-0414
Safety Data Sheet Competent Person: safety@pantheonchemical.com

Supplier's Name: Oil Spill Eater International, CORP.
Address: P.O. Box 515429
Dallas, Texas 75251

Emergency Phone Number: Chemtrec 24 hrs: 1-800-424-9300

Date Prepared: December 3, 2014
Date Reviewed: October 26, 2016

Section 2: Hazards Identification

GHS Hazard Class: NONE

GHS Label elements, including precautionary statements:

Pictogram: NONE
Signal word: NONE
Hazard Statement(s): NONE.
Precautionary Statement(s): NONE.

Hazard(s) Not Otherwise Classified (HNOC): Not classified
HAZARD CLASSIFICATION: Not classified as hazardous based on IATA, IMDG, and DOT.
FIRE AND EXPLOSION: Not considered flammable or combustible.
POTENTIAL HEALTH EFFECTS: <2.5 % of mixture consists of ingredients of unknown acute toxicity.

Section 3: Composition/Information on Ingredients

PRODUCT COMPOSITION	APPROX %	CAS NO.
Water	80-90	7732-18-5
Sugar	1.5-2	50-99-7
Molasses	1-2	---
Malt	1-2	8029-43-4
Nitrogen (Urea)	0.01-0.09	57-13-6
Bio Surfactant	0.06-0.08	68131-40-8
Amylase	0.01-0.03	9000-90-2
Protease	0.01-0.03	9014-01-1

Bona fide requests for disclosure of proprietary mixture information to medical personal must be made in accordance with the provision contained in 29 CFR 1910.1200 I 1-13.

Section 4: First Aid Measures

Description of First Aid Measures

Inhalation:	Inhalation of vapors from this product pose no acute or chronic hazard.
Skin contact:	Prolonged exposure to skin may cause some drying of the skin. Wash off with water.
Eye contact:	Flush eyes with copious quantities of water. If irritation persists, seek medical attention.
Ingestion:	If less than ½ liter is ingested, no toxic symptoms should occur. Wash out mouth and seek medical attention if more than ½ liter is ingested.

Indication of any immediate medical attention and special treatment needed

In case of accident or if you feel unwell, seek medical advice immediately.

Section 5: Fire-fighting Measure

Specific hazard:	OSE II is a fire retardant. However, if applied to a burning fire, there can be a slight flash before fire goes out.
Flammable limits in air (%by vol):	Non-flammable.
Extinguishing media:	None required. Product is a fire retardant (Method used: ASTM-D56).
Unsuitable extinguishing media	None required. Product is a fire retardant.
Protective equipment:	Proper protective equipment including breathing apparatus must be worn when approaching any fire.
Special firefighting procedures:	None – fire retardant.
Unusual fire and explosion hazards:	None.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

PERSONAL PRECAUTIONS:	Avoid contact with eyes. Wash from skin or eyes as needed.
PERSONAL PROTECTION:	Wear goggles if applying in windy conditions. Wear protective rubber gloves if applying directly in a prolonged situation.

Environmental precautions

ENVIRONMENT PRECAUTIONS:	Wash down with water. Will help clean soil, drains, or water
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Methods and materials for containment and cleaning up

CLEAN-UP METHODS – SMALL SPILLAGE:	Wash down with water. Non-toxic to the environment.
CLEAN-UP METHODS – LARGE SPILLAGE:	Same as for small spills.

Section 7: Handling and Storage

Handling:	When handling product in drums, safety footwear should be worn. However, no special handling procedures required.
Storage:	Keep in cool, dry area. Avoid direct sunlight and excessive heat. Do not store where temperature exceeds 120°F. Recommended materials are polyethylene drums or PVC.
Other Information:	Product can freeze/thaw without any negative effect on product.

Section 8: Exposure Controls/Personal Protection

Control Parameters

OCCUPATIONAL EXPOSURE STANDARDS:	None established (none toxic)
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Personal Protection

WORK/HYGIENE PRACTICES:	Wash hands before eating or drinking.
RESPIRATORY PROTECTION:	Not normally required.
HAND PROTECTION:	Any plastic or rubber glove if needed; not normally required.
EYE PROTECTION:	Wear safety glasses or goggles if applying in windy conditions.

BODY PROTECTION:

Not normally required.

Section 9: Physical and Chemical Properties

PHYSICAL STATE:	Liquid with the same density of H ₂ O
APPEARANCE – COLOR:	Amber to brown
ODOR:	Some smell of ferment
ODOR THRESHOLD:	Not available
BOILING POINT:	214 °F (102°C)
SPECIFIC GRAVITY (@20 °C):	1.05
MELTING POINT:	Not available
FREEZING POINT:	Not available
DROPPING POINT:	Same as H ₂ O
pH:	~6.5-7
VAPOR PRESSURE:	Same as H ₂ O
DENSITY:	Same as H ₂ O. 1.1
VAPOR DENSITY:	1.1
EVAPORATION RATE:	Not available
VISCOSITY:	Not available
SOLUBILITY IN WATER:	100%
OXIDIZING PROPERTIES:	Not available
AUTO-IGNITION TEMPERATURE:	Non-igniting
DECOMPOSITION TEMPERATURE:	Not available
FLASH POINT:	Same as H ₂ O in excess – 7000°F – retardant (Method used: fire)
FLAMMABILITY LIMIT – LOWER:	Nonflammable
FLAMMABILITY LIMIT – UPPER:	Nonflammable
N-octanol/water Partition Coefficient:	100% soluble – non partitioning
CORROSIVE:	No

Section 10: Stability and Reactivity

STABILITY:	Stable.
CONDITIONS TO AVOID:	Temperature above 120°F and direct sunlight during storage or transporting.
INCOMPATIBILITY (MATERIALS TO AVOID):	Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	None. Decomposes to CO ₂ and H ₂ O.
HAZARDOUS POLYMERIZATION:	Will not occur.

Section 11: Toxicological Information

Toxicity tests have been performed. OSE II is virtually nontoxic.

GHS Required Criteria	Toxicity Criteria	Data	Comments	Chemical Constituent
Acute Toxicity	ATE _(MIX) Oral	>940,000mg/kg	Can become toxic if more than 60 ml (2oz.) is ingested.	Product
	ATE _(MIX) Dermal	Not available	None	Product
Skin Corrosion/Irritation	---	Not available	Skin can dry slightly if prolonged direct exposure	Product
Serious Eye Damage / Eye Irritation	---	Not available	Slightly irritant alleviated by copious eye washing	Product
Respiratory or Skin Sensitization	---	Not available	Not expected to be a skin sensitizer.	Product
Germ Cell Mutagenicity	---	Not available	Not a mutagenic	Product
Carcinogenicity	---	Not available	Not a carcinogen	Product
Reproductive Toxicity	---	Not available		
STOST -- Single Exposure	---	Not available		
STOST -- Repeated Exposure	---	Not available		
Aspiration Hazard	---	Not available		
Ames test	---	Not available		
Human effects	---	Not available	None expected	Product

ATE_{mix} = Acute Toxicity Estimate of mixture

Section 12: Ecological Information

Ecotoxicological data has been determined specifically for this product. Information given is for specific sensitive (aquatic) species in fresh and salt water.

Criteria	Environmental impacts	Chemical constituent
Toxicity:	LC50 Brine shrimp >1,900 mg/l up to 10,000 mg/l LC50 Fundulus Heterocletus 96 hour – 5,258 mg/l LC50 Rainbow Trout 10,000 mg/l LC50 Fathead Minnows (Pimephales promelas) – 9,300 mg/l IC10 Milky oyster (Saccostrea echinata) 48hour – 11.0 mg/l EC50 Milky oyster (Saccostrea echinata) 48hour – 16.5 mg/l NOEC Milky oyster (Saccostrea echinata) – 10 mg/l LOEC Milky oyster (Saccostrea echinata) – 20 mg/l EC10 Mussel (Mytilus galloprovincialis), 72hour >20mg/l EC50 Mussel (Mytilus galloprovincialis), 72hour >20mg/l NOEC Mussel (Mytilus galloprovincialis) >20mg/l LOEC Mussel (Mytilus galloprovincialis) >20mg/l	Product
Bioaccumulative potential	None	Product
Persistence and degradability:	Product completely biodegrades in water or soil environment and will not persist.	Product
Mobility in soil:	Liquid that floats on water and solubilizes rapidly. If it comes in contact with soil will percolate at the same rates as H ₂ O and will biodegrade rapidly.	Product
PBT and vPvB assessment:	No information is available.	Product
Other adverse effects:	No information is available.	Product

Section 13: Disposal Considerations

Completely rinse container prior to disposal. Dispose of in accordance with Federal, State and local regulations. Large quantities of waste may require adjustment to a neutral pH. None of the chemicals used in the product are listed as a Priority Pollutant in Appendix A to 40 CFR, Part 423—126 Priority Pollutants.

Section 14: Transport Information

Not dangerous for conveyance under UN, IMO, ADRiRID.

DOT TRANSPORT:

Not Regulated

ADR = International Carriage of Dangerous Goods by Road:

Not Regulated

RAIL TRANSPORT:

Not Regulated

SEA TRANSPORT:

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT:

Not classified as Dangerous Goods by the criteria of the International Air Transportation Association (IATA) Dangerous Goods Regulations for transport by air.

Section 15: Regulatory Information

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:

All of the ingredients in this product are TSCA listed.
Other information: US DOT class 55 non hazardous
Dangerous Constituents: None.

EC CLASSIFICATION:

Not known.

EC SYMBOLS:
Not known.

EC RISK PHASES:
Not known.

EINECS (EC):
Not known.

Section 16: Other Information

Revision Number: 2.0
Revision explanation: GHS compliant. Format and information in sections 2, 3, 11, 12, 16 updated
Information Sources: RTECS, OSHA 29CFR 1910.1200

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