

MATERIAL SAFETY DATA SHEET

E.P.S. Oil Adsorbent

Version 1.0

Printing date: 12/02/2018

Revision date: 12/02/2018

SDS Record Number: CSSS-TCO-010-111604

SECTION 1: Identification

GHS Product identifier: E.P.S. Oil Adsorbent

Other means of identification: See section 3

Recommended use of the chemical and restrictions on use

Recommended use: Used for absorbing oil and purifying water.

Recommended Restrictions: Not available

Details of the supplier of the safety data sheet:

Supplier(Manufacturer): HongKong Ananke Environmental Protection Technology Co., Limited

Address: Flat/RM A 12/F, CNT Tower, 338 Hennessy Road, Wanchai, HongKong

Contact person(E-mail): anankepc@hotmail.com

Telephone: 86-20-82329752

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Supplier(Manufacturer) in Australia: Environmental Protection Solutions Pty Ltd

Address: P.O Box 2736 Rowville VIC 3178

Contact person(E-mail): info@envps.com.au

Telephone: +613 9759 7874

Fax: -

Emergency number: 86-20-82329752

SECTION 2: Hazard identification

Classification of the substance or mixture:

Physical hazards: Not classified

Health hazards: STOT SE Category 3

Environmental hazards: Not classified

GHS label elements:

Hazard Pictograms: :



Signal word: Warning

Hazard statement: H335: May cause respiratory irritation.

Precautionary statement:

Prevention: P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P271: Use only outdoors or in a well-ventilated area.

Response: P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER/doctor if you feel unwell.

Storage: P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

Disposal: P501: Dispose of contents/container according to local regulations.

Specific hazards: Not applicable

SECTION 3: Composition/information on ingredients

Material name: E.P.S. Oil Adsorbent

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Substance/Mixture: Mixture

Ingredient(s):

Chemical Name	CAS No.	EC No.	Concentration
Silicon dioxide	60676-86-0	262-373-8	71.76%
Aluminium oxide	1344-28-1	215-691-6	11.68%
Potassium Oxide	12136-45-7	235-227-6	3.87%
Sodium Oxide	1313-59-3	215-208-9	3.60%
Iron oxide	1309-37-1	215-168-2	1.00%
Calcium Oxide	1305-78-8	215-138-9	0.68%
Ferrous Oxide	1345-25-1	215-721-8	0.48%
Magnesium Oxide	1309-48-4	215-171-9	0.36%

SECTION 4: First-aid measures

Description of necessary first-aid measures:

- Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if irritation develops or persists.
- Skin:** None expected to require first aid measures. Immediately wash skin with soap and water. If irritation develops and persists, seek medical attention.
- Eye:** None expected to require first aid measures. Immediately flush eyes with running water for at least 15 minutes. Occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.
- Ingestion:** None expected to require first aid measures. If large amounts were swallowed, give water to drink and get medical aid.

Most important symptoms and effects, both acute and delayed:

May cause respiratory irritation.

Indication of immediate medical attention and special treatment needed, if necessary:

If skin irritation or rash occurs, get medical advice/attention.

SECTION 5: Fire-fighting measures

- Suitable extinguishing media:** Use any means suitable for extinguishing surrounding fire.
- Unsuitable extinguishing media:** Not available.
- Specific hazards arising from the chemical** Not available.
- Special protective actions for fire-fighters** Wear self-contained breathing apparatus and protective clothing to prevent contact skin and eyes.

SECTION 6: Accidental release measures

Personal precautions, protective Avoid dust formation. Fine dust dispersed in air may ignite. Avoid contact with skin, eyes and

equipment and emergency procedures:	clothing. Use personal protective equipment.
Environmental precautions:	Avoid disposing into drainage/sewer system or directly into the aquatic environment.
Methods and materials for containment and cleaning up:	Ventilate area of leak or spill. Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Clean up affected area. Don't use a brush or compressed air for cleaning surfaces or clothing. Clear spills immediately.

SECTION 7: Handling and storage

Precautions for safe handling:	Avoid breathing dusts. Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.
Conditions for safe storage, including any incompatibilities:	Store in a cool and ventilated place. Store away from incompatible materials (see Section 10 of the MSDS).

SECTION 8: Exposure controls/personal protection

Control parameters:	<p>Silica, vitreous(CAS#60676-86-0): -OSHA PEL: 30mg/m3(TWA) for total dust, 10mg/m3(TWA) for respirable fraction.</p> <p>Aluminum oxide(CAS#1344-28-1): -OSHA PEL: 15mg/m3(TWA) for total dust, 5mg/m3(TWA) for respirable fraction.-ACGIH TLV: 10mg/m3;-China: 4mg/m3(TWA), 6mg/m3(STEL) for total dust.</p> <p>Diiron trioxide(CAS#1309-37-1): -OSHA PEL: 10mg/m3(TWA); -ACGIH TLV: 5mg/m3;</p> <p>calcium oxide(CAS#1305-78-8): -OSHA PEL: 5mg/m3(TWA); -ACGIH TLV: 2mg/m3; -China: 2mg/m3(TWA), 5mg/m3(STEL).</p> <p>Iron oxide (CAS#1345-25-1): -ACGIH TLV: 5mg/m3;</p> <p>Magnesium oxide (CAS#1309-48-4): -OSHA PEL: 15mg/m3(TWA); -ACGIH TLV: 10mg/m3; -China: 10mg/m3(TWA), 25mg/m3(STEL) for fume.</p>
Appropriate engineering controls:	Handle in accordance with good industrial hygiene and safety practice. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. Provide eyewash station.
Individual protection measures:	Wear chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.
Eye/face protection:	
Skin protection:	Wear suitable protective clothing to prevent skin exposure.
Respiratory protection:	In fire situations, use self-contained breathing apparatus.
Hand protection:	Wear appropriate gloves to prevent skin exposure.

SECTION 9: Physical and chemical properties and safety characteristics

Appearance:	
Physical state:	Granules
Form:	Granules
Color:	Grey white
Odor:	Odourless

Odor threshold:	Not available
pH:	Not available
Melting point/Freezing point:	>1500°C
Initial boiling point and boiling range:	Not available
Flash point:	Not available
Auto-ignition temperature:	Not available
Kinematic viscosity	Not available
Evaporation rate:	Not available
Flammability (solid, gas) :	Non flammable
Upper/lower flammability or explosive limits:	Not available
Vapor pressure:	Not available
Density and/or relative density:	0.08 g/m ³ (25°C)
Relative vapour Density:	
Solubility (H₂O) :	Insoluble in water
Partition coefficient (n-octanol/water) :	Not available
Auto-ignition temperature:	>1000°C
Decomposition temperature:	Not available
Molecular weight:	Not available
Molecular formula:	Not available
Viscosity:	Not available
Particle characteristics(solid):	Not available

SECTION 10: Stability and reactivity

Reactivity:	The substance is stable under normal storage and handling conditions.
Chemical stability:	Material is stable under normal conditions
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Conditions to avoid:	Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
Incompatible materials:	Strong oxidizing agents, strong acids and strong alkalis.
Hazardous decomposition products:	Hydrogen fluoride, sodium oxide.

SECTION 11: Toxicological information

Toxicological information:	Occupational exposure to the substance or mixture may cause adverse effects.
Acute toxicity:	
LD50(Oral, Rat):	Not available.
LD50(Dermal, Rabbit):	Not available.
LC50(Inhalation, Rat):	Not available.
Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	This product is not expected to cause skin sensitization.
Germ cell mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity:	Not classifiable as to carcinogenicity to humans.
Reproductive toxicity:	This product is not expected to cause reproductive or developmental effects.
STOT- single exposure:	May cause respiratory irritation.
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not an aspiration hazard.

Other information

Not available

SECTION 12: Ecological information**Toxicity:**

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	>100 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability:

No data is available on the degradability of this product.

Bioaccumulative potential:

No data available.

Mobility in soil:

No data available.

Other adverse effects:

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations**Disposal methods:**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information**ADR**

UN number	Not regulated
UN Proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Labels required	Not regulated

IATA

UN number	Not regulated
UN Proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated

IMDG

UN number	Not regulated
UN Proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Environmental hazards	
Marine pollutant	No
EmS	Not regulated

RID

UN number	Not regulated
UN Proper shipping name	Not regulated

Transport hazard class(es)	Not regulated
Packing group	Not regulated
Labels required	Not regulated
Special precautions Read safety	Read safety instructions, SDS and emergency procedures before handling.
ADR; IATA; IMDG; RID	Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	No information available

15. Regulatory information

Inventory status:

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Indication of changes:	Version 1.0 Amended by GHS rev 6
Preparation date:	12-02-2018
Revision date:	-
Further information:	This information is based upon the present state of our knowledge. This MSDS has been compiled and is solely intended for this product.
Notice to reader:	Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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