

# **EOS**zvi

### **SAFETY DATA SHEET**

Section 1: Identification	
Product Name:	EOS ZVI
Chemical Description:	Mixture; carbonyl iron powder in vegetable oil
Manufacturer:	EOS Asia Remediation Co., Ltd.
	1F., No. 20, Anlin 3rd St.,
	Yanchao, Kaohsiung, Taiwan 824
	(P): +886-7-616-9827
	www.eos-asia.com
Recommended Use:	Groundwater Bioremediation (environmental applications)
Restricted Use:	Not for human consumption
24-Hour Emergency Contact:	EOS Asia Remediation Co., Ltd.: Taiwan
	(P): +886-7-616-9827
	ChemTel: International
	(P): 813-248-0585

Section 2: Hazard(s) Identification		
Hazard Classification:	Irritant (eye and skin)	
Signal Word:	Warning	
Hazard Statement(s):	Potential eye and skin irritant.	
Pictograms:		
Precautionary Statement(s):	Not for human consumption. Protect from freezing. Do not store near excessive heat or oxidizers. Avoid contact with eyes and skin. Wear protective gloves and eye protection.	

Section 3: Composition/Information on Ingredients		
Common Name(s)	Asia kasno.med	1 % by Weight
Soybean Oil	8001-22-7	40 - 45
Emulsifiers Trade Secret <sup>1,2</sup>	Proprietary	Specific proportion
Stabilizers Trade Secret <sup>1,2</sup>	Proprietary	Specific proportion
Carbonyl Iron	7439-89-6	45 - 55

- 1 The precise composition of this product is proprietary information. A more complete disclosure will be provided to a physician in the event of a medical emergency.
- 2 The soluble substrates and emulsifiers are generally recognized as safe.

Section 4: First-Aid Meas	ures
Routes of Exposure	Emergency First-Aid Procedures
Inhalation	Remove to fresh air.
Eye Contact	Flush with water for 15 minutes; if irritation persists see a physician.
Dermal	Wash with mild soap and water.
Ingestion	Product is non-toxic. If nausea occurs, induce vomiting and seek medical
	attention.

Section 5: Fire-Fighting Measures		
Extinguishing Media:	CO <sub>2</sub> , foam, dry chemical	
	Note: Water, fog and foam may cause frothing and spattering.	
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus and chemical resistant clothing.	
	Use water spray to cool fire exposed containers.	
Fire Hazard(s):	Burning will cause oxides of carbon.	

Section 6: Accidental Release Measures		
Personal Precautions:	Avoid contact with eyes and skin. Do not consume.	
Emergency Procedures:	N/A	
Methods & Materials used for	Compatible granular absorbent	
Containment:		
Cleanup Procedures:	Spread compatible granular absorbent over spill area and sweep using	
	broom and pan; dispose in appropriate receptacle. Clean area with water.	

Section 7: Handling and Storage		
Safe Handing & Storage:	Do not store near excessive heat (> 150°C) or oxidizers.	
Other Precautions:	Consumption of food and beverages should be prevented in work area	
EOS A	where product is being used. After handling product, always wash hands and face thoroughly with soap and water before eating, drinking, or smoking.	
	Silloking.	

Section 8: Exposure Controls/Personal Protection			
Exposure Limits			
OSHA PEL:	Vegetable Oil Mist	15 mg/m³ (total) 5 mg/m³ (respirable)	
ACGIH TLV:	NE	NE	
NIOSH REL:	Vegetable Oil Mist	10 mg/m³ (total) 5 mg/m³ (respirable)	
Personal Protective Measures			
Respiratory Protection:	Not normally requir	Not normally required. P95 respirator if aerosols might be generated.	



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Hand Protection:	Protective gloves are recommended
Eye Protection:	Recommended
Engineering Measures:	Local exhaust ventilation if aerosols are generated
Hygiene Measures:	Wash promptly with soap & water if skin becomes irritated from contact.
Other Protection:	Wear appropriate clothing to prevent skin contact.

NE – Not Established

Section 9: Physical and Chemical Properties			
Appearance:	Black	Explosive Limits:	NE
Odor:	Vegetable Oil	Vapor Pressure:	NE
Odor Threshold:	NE	Vapor Density:	Heavier than air
pH:	NE	Relative Density:	1.5 – 1.7
Melting Point/Freezing Point:	Liquid at room	Solubility:	Easily soluble &
	temperature		dispersible
Boiling Point:	N/A	Partition coefficient:	NE
Flash Point:	>600°F (316°C)	Auto-ignition Temperature:	NE
Evaporation Rate:	NE	Decomposition Temperature:	N/A
Flammability (solid, gas):	NE	Viscosity:	2350 cP

NE – Not Established N/A – Non-Applicable

Section 10: Stability and Reactivity		
Stability:	Stable	
Incompatibility:	Strong acids and oxidizers	
Hazardous Decomposition	Thermal decomposition may produce oxides of carbon	
Products:		
Hazardous	Will not occur	
Reactions/Polymerization:	ais Damadistica	
Conditions to Avoid:	Do not expose to temperatures above 150°C	

Section 11: Toxicological Information		
Likely Routes of Exposure: Ingestion, dermal and eye contact		
Signs and Symptoms of Exposure:	None known	
Health Hazards		
Acute:	Potential eye and skin irritant	
Chronic:	None known	
Carcinogenicity		
NTP:	No	
IARC:	No	
OSHA:	No	

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#### **Section 12: Ecological Information (non-mandatory)**

There is no data on the ecotoxicity of this product.

#### Section 13: Disposal Considerations (non-mandatory)

Waste Disposal Methods:	Dispose of according to Federal and local regulations for non-hazardous
	waste.

#### Section 14: Transport Information (non-mandatory)

The product is not covered by international regulation on the transport of dangerous goods.

No transport warning required.

#### **Section 15: Regulatory Information (non-mandatory)**

N/A

#### **Section 16: Other Information**

Date of Preparation:	2 June 2016	
Last Modified Date:	19 December 2016	

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# **EOS** Asia Remediation