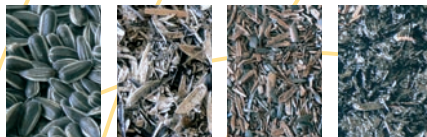




# SUNSORB™

A B S O R B E N T S

Global spill management solutions



## Company profile

In March 2005 Sunsob™ launched its environmentally friendly, cost-effective and natural absorbents to aid in the clean-up and remediation of oil and other hydrocarbon spills.

The head office of Sunsob™ International Limited is based in Bermuda. Sunsob™ Absorbents (Pty) Ltd, an associate company has its headquarters situated in Cape Town, South Africa with a manufacturing plant located in Welkom (Free State), 250 kilometres south of Johannesburg.

## About Sunsob™

Sunsorb™ products have been developed over many years of research. Sunsob™ differs from other commercially available products in that it is manufactured from processed sunflower husks – a by-product of the food industry. Sunsob™ utilizes this natural by-product to create a cost-effective and highly efficient hydrocarbon absorbent.

Using a world-wide patent pending process Sunsob™ maximizes the natural abilities of sunflower husks making them oleophilic and hydrophobic. Once in contact with a hydrocarbon, Sunsob™ adsorbs the substance, locking it inside its own cell structure as opposed to the hydrocarbons adhering to its outer layer, thereby minimizing leaching.

Suitable for use on both land and water, Sunsob™ is environmentally safe, natural and biodegradable. It is non-toxic thereby preventing further damage to the environment after disposal. Sunsob™ is packaged to industry standard norms and can be easily integrated into any company's existing spill management programme.

## Benefits

- Recycles sunflower husks – a natural waste product of the sunflower industry.
- Convenient and efficient to use.
- Cost-effective.
- Safely incinerated, Sunsob™ produces only a small quantity of ash residue.
- Naturally biodegradable, Sunsob™ can be safely disposed of in landfill sites.
- Sunsob™ has been lab tested and proven to be ideal for the adsorption of hydrocarbons on both land and water.
- Non leaching.

## Essential Absorbent Products for:

- Ports, Harbours and Marinas.
- Spill responders.
- Navy/military.
- Service stations.
- Fire and police departments.
- Airports.
- Mining.





**SSLF200**  
 Description: 200 litre biodegradable vacuum packed loose Sunorb™ fibre filled bag.  
 Absorption: 200 litres  
 Ship Size & Approximate Weight: 76 800cm<sup>3</sup> bag/20kg (60cm x 40cm x 32cm), (24" x 16" x 13")



**SSB2m**  
 Description: 2 metre polypropylene spun bonded fabric boom filled with Sunorb™ loose fibre.  
 Absorption: 6-9 litres  
 Quantity: 2 per bag




**SSB4m**  
 Description: 4 metre polypropylene spun bonded fabric boom filled with Sunorb™ loose fibre.  
 Absorption: 12-18 litres  
 Quantity: 2 per bag



**SSP**  
 Description: 500mm x 400mm polypropylene spun bonded fabric pillow filled with Sunorb™ loose fibre.  
 Absorption: 6-9 litres  
 Quantity: 10 per bag



**SSDC**  
 Description: Drum Cover Cushion  
 Absorption: 10-15 litres  
 Approximate weight: 1.75kg each.  
 Quantity: 10 per bag



**SSTSK**  
 Description: Sunorb Truck Spill Kit  
 Comprising of a PVC nylon bag (70cm x 42cm x 25cm)  
 Containing: 100 litre Sunorb™ fibre;  
 1 x 2m boom;  
 5 x polyprop pads;  
 1 x dusk mask;  
 1 x goggles;  
 1 x pair rubber gloves;  
 5 x plastic bags;  
 5 x cable ties;  
 1 x hand broom;  
 1 x plastic scoop



**SSOANS**  
 Description: Sunsolve Oilaway NS  
 A natural solvent based degreaser.  
 Size: 25 litres or 210 litres



**SSOAH20**  
 Description: Sunsolve Oilaway H2O  
 A water based solvent degreaser.  
 Size: 25 litres or 210 litres



**SSOSK**  
 Description: 240 litre spill kit container, containing:  
 200 litre Sunorb™ fibre;  
 2 x 2m Sunorb boom;  
 2 x Sunorb™ pillow;  
 1 x spark-proof broom;  
 1 x spark-proof shovel;  
 1 x pair rubber gloves;  
 4 x dust masks;  
 1 x pair of goggles;  
 5 x plastic bags;  
 5 x cable ties

## Material safety data sheet

### 1. Identification of the substance

**Product name:** SUNSORB™ absorbents  
**Chemical synonyms:** None  
**Chemical family:** Sunflower husk  
**Emergency number:** 27 21 6747277  
**Hazard rating:** Fire 1. Reactivity 0. Health 0.

### 2. Composition / information on ingredients

**EC classification:** not classified  
**Hazardous and / or other relevant components:** OEL 0

### 3. Hazard identification

**Health hazards acute and chronic:**  
Nuisance dust, contains sunflower husk.  
**Signs and symptoms of overexposure:**  
**Inhalation:** Over long periods of dust may irritate mucous membranes and make lungs more vulnerable to respiratory disease.  
**Eyes:** Dust may cause slight irritation.  
**Skin:** No known hazard.  
**Ingestion:** No known hazard.

### 4. First aid measures

**Inhalation:** Move to fresh air.  
**Eyes:** Wash with clean water.  
**Skin:** Open wounds, wash with soap and water.  
**Ingestion:** Do not induce vomiting / drink liquids.

### 5. Fire fighting

Break open bags and separate once fire has been extinguished as burning may continue in the bag.

### 6. Accidental release measures

Contain and collect

### 7. Handling and storage

Store in a dry place

### 8. Personal protection information

**Respiratory protection:** If excessive dust is created use a NIOSH or MSHA approved respirator.  
**Ventilation:** Sufficient ventilation should be available to keep exposure to acceptable levels.  
**Eye protection:** If dust levels are high.  
**Skin:** Protective clothing eg. Gloves, boots and overalls should be used when picking up hydrocarbons.

### 9. Physical and chemical properties

**Appearance:** Brown, fibrous.  
**Solubility in water:** Not soluble.  
**Boiling point:** N/A  
**Melting/freezing point:** N/A  
**Decomposition point:** N/A  
**Vapour density:** N/A  
**Percent volatiles by volume:** N/A

### 10. Reactivity

**Stability:** Stable.  
**Hazardous decomposition products:** None known.  
**Hazardous polymerization indicator:** Not known to occur.  
**Conditions and materials to avoid:** Acids.

### 11. Toxicological information

No carcinogenic, mutagenic or genetic effects established

### 12. Ecological information

Environmentally friendly, not dangerous to the environment

### 13. Spill and disposal procedures

Use methods to clean spill which avoid creating excessive dust.  
Dispose of hydrocarbon absorbed Sunisorb™ according to regional and government material absorbed regulations.

### 14. Transportation information

**UN No:** N/A.  
**Transportation:** Not considered dangerous to transport

### 15. Regulatory information

EC INDEX No: N/A      EEC LABEL No: N/A  
S22 Do not breathe dust.

### 16. Other information

In case of discomfort always seek medical advice

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## Disclaimer

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**Emergency phone number:**  
**+27 21 674 7277**  
**Mobile: +27 73 101 2166**  
**Fax number: +27 21 674 7229**  
**elgon@sunsorb.com**  
**www.sunsorb.com**

**Sunsorb™ Absorbents (Pty) Ltd**  
**PO Box 44835**  
**Claremont**  
**7735**  
**Cape Town**  
**South Africa**

**Sunsorb™ Absorbents (Pty) Ltd**  
**15 Surrey Street**  
**Harfield Village**  
**7708**  
**Cape Town**  
**South Africa**