

# MATERIAL SAFETY DATA SHEET

Description: SAF SUPAZORB

Revision Number: 02

Document Number: MSDS S028020



## GENERAL

SUPAZORB is a 100 % natural organic, non-toxic and non-leaching hydrocarbon and chemical absorbent. SUPAZORB is a non-abrasive self re-generating natural absorbent which when disposed for bioremediation, (composting) does not change its structure or release the encapsulated hydrocarbons to the environment. Most absorbents rely on bacterial action during the remediation process while this product utilises over 700 naturally occurring fungal and bacterial isolates, these produces enzymes that break down the complex structures externally, this is a pre-processing stage which offers SUPAZORB a variety of advantages which includes the highest bioremediation above most hydrocarbon absorbents out there.

## FORMULATION

SUPAZORB is a blend of four plant type naturally occurring excellent absorbents which are carefully selected to ensure maximum availability of Fungi & Bacteria for complete bioremediation of hydrocarbons whether aliphatic, aromatic, alicyclic, polycyclic aromatic or any other petroleum distilled product including other derivatives.

## PRODUCT DESCRIPTION:

<u>TEST</u>	<u>UNIT OF MEASURE</u>	<u>SPECIFICATION</u>
APPEARANCE	-	Light brown fibrous material
SOLUBILITY IN WATER	-	Non-soluble.

## PROPERTIES

- Totally environmentally acceptable
- High oil pick up - absorbs up to 6 times its own weight, depending on a type of hydrocarbon and application.
- Biodegradable, non-abrasive and non-toxic
- Lipophylic – Oil (hydrocarbon) “loving”
- Excellent buoyancy – floats wonderfully in water after hydrocarbon absorption
- High rate of oil holding – water doesn't displace oil, non-leaching
- High rate of bioremediation process

## TESTS OR ABSORBENCY RATIO

1 Litre of SUPAZORB absorbs 1.73 litres of engine oil the test was carried out by SGS

**20 KG BAG ABSORBS 130 LITRES OF OIL.**

**Prepared by:** Sabelo Dladla

**Reviewed by:** Doug Cutter

**Status:** Issued

**Approved by:** Doug Cutter

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### **APPLICATION**

#### **HARD SURFACES:**

Apply SUPAZORB around the edge of the spill to prevent spreading. Cover the affected area to a depth of 10 – 15 mm. Allow 1 – 3 minutes to absorb (depending on the viscosity of the spill) Agitate with a brush, broom, rake, or similar implement to ensure complete absorption. Once absorption is complete, sweep the area and remove the saturated SUPAZORB for disposal in approved landfills or according to local government regulations.

An environmentally acceptable Heavy Duty Degreaser may be used in conjunction with a second application of SUPAZORB in order to remove stains.

#### **SPILLAGE ON WATER:**

Apply SUPAZORB by spreading around the edge of the spill to prevent spreading. Cover the affected area to a depth of 10 – 15 mm. Allow 1 – 3 minutes to absorb (depending on the viscosity of the spill). Remove saturated SUPAZORB for disposal, using a mesh scoop or net.

### **CAUTION**

STORE AT AMBIENT TEMPERATURES AWAY FROM DIRECT SUNLIGHT.

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## Company Details

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Postal Address	PO BOX 1754, Alberton 1450	e-mail:	<a href="mailto:technical@safic.co.za">technical@safic.co.za</a>

## 1. Product Identification

Trade Name	SUPAZORB	Product code: S028020
Chemical Family	A Blend of natural organic plants	
Chemical Name	Natural plants	
Product Use	Oil spill absorbent	

## 2. Composition

CAS No.	Hazardous Components	Approx. %	OSHA PEL
None	Non-hazardous	N/A	N/A

## 3. Hazards Identification

Main Hazard	Irritant, avoid eye contact and inhalation in dusty conditions.
Inhalation	Use face mask offering dust protection in extreme conditions
Skin contact	No effect
Eye contact	Dust can be irritating but does not injure eye tissue
Ingestion	Might be a irritant depending on quantity ingested.

## 4. First Aid Measures

Inhalation	Move patient to fresh air. Avoid inhalation of dust.
Skin contact	Wash area well with water.
Eye contact	Flush eyes with water for at least 15 minutes. Irrigate eyes thoroughly while lifting eyelids and rolling eyeballs. If irritation persists, seek medical attention.
Ingestion	Rinse mouth with water, may seek medical attention.

## 5. Fire Fighting Measures

Extinguishing media	Product is non flammable, use extinguishing media suitable to surrounding areas.
Special hazard	None known
Protective equipment	Use self contained breathing apparatus or equivalent

## 6. Accidental Release Measures

Small spills	Sweep up and containerise
Large spills	Sweep up and containerise

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### 7. Handling & Storage

Handling	Normal handling procedure for natural fibres.
Storage	Store in a cool dry area. Keep bags sealed away from fire. Good normal warehouse practices. DO NOT STORE UNDER DIRECT SUNLIGHT.

### 8. Exposure Controls/Personal Protection

Workers should have access to an eye wash fountain.
If the specific application results to excessive dust nuisance SAFETY GOGGLES (VNC11 – supplier – MSA) and DUST RESPIRATORS ( 8810 Type: FFP2S – supplier – 3M)
Wash hands before handling food
Use in adequate ventilation.

### 9. Physical and Chemical Properties

Appearance	Light brown fibrous material
Odour	Slight
pH	4.0 – 6.0
Relative density	0.29

### 10. Stability and Reactivity

Stability	Stable under normal conditions.
Incompatible materials	Strong oxidising agents. Keep away from fire or naked flames.
Hazardous decomposition products	None known. When burning after oil absorption may release toxic fumes depending on the hydrocarbon.

### 11. Toxicological Information (based on main ingredient)

Toxicity	The product is non-toxic when used as recommended.
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### 12. Ecological Information (based on main ingredient)

Aquatic toxicity – rainbow trout	The product is non-toxic to aquatic organisms.
Aquatic toxicity - daphnia	The product is non-toxic to aquatic organisms.
Aquatic toxicity - algae	The product is non-toxic to plants.
Biodegradability	Completely biodegradable.
Bio-accumulation	Not expected to bio-accumulate.

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### 13. Disposal Considerations

After oil absorption the product can be incinerated or bio remediated in an approved land farm site.

### 14. Transport Information

Substance identity no	S028020
ADR/RID class	Non-hazardous
IMDG class	Non-hazardous
Marine Pollutant	No
IATA Classification	Non-hazardous

### 15. Regulatory information

Not regulated as hazardous

### 16. Other Information

References: SABS 0265: 1999, SABS 0228:1995, SABS ISO 11014-1: 1994

Issued by: Sabelo Dladla

**EMERGENCY NUMBERS: 011 406 4000 / 082 412 2298**

The information in this MSDS is based on current knowledge and experience at the date of publication. This MSDS summarises our best knowledge of the health and safety hazard information of the product and is intended only as a guide to the appropriate precautionary handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification of the product. The data relates only to the specific product designated, and does not relate to use of the product in combination with any other material or use of the product in any process. The data is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability for fitness for a particular purpose is made with respect to the product, its composition, its safety or the information contained in this MSDS sheet

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## APPENDIX A

Revision Date (dd/mm/yy)	Issued By	Revision History		Revision No.
		Description	DCN No.	
20/05/2013	Technical Manager	New Issue	MSDS S028020	00
16/02/2017	Operations Director	Document Review	MSDS S028020	01
08/08/2017	Operations Director	TDS Review	MSDS S028020	02

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