



SYNERGY

INNOVATIVE DIVING EQUIPMENT TRADING LLC

INSPIRING • ENGINEERING • INNOVATION

UAE • UK • INDIA • AZERBAIJAN



SOFNOFIL

T E C H N I C A L D A T A S H E E T

Sofnofil

Sofnofil is a general odour absorbent for use in the air purification industry



molecular

Applications

Sofnofil is a chemical absorbent comprising a high activity alumina base impregnated with potassium permanganate. It removes gaseous chemical contaminants by a combined process of adsorption, absorption, oxidation and neutralisation.

Specific applications include:

- Removal of sulphur gases from paper mills
- Protecting computer installations from corrosive gases
- Emission control in sewage treatment facilities
- Trapping off gases from electronic component manufacturing process
- Purification of re-circulating diver gas

Specifications

Colour:	Purple
Shape:	Spherical
Size of bead:	2.5 5.00mm
Bulk density:	800kg/m ³
Moisture content:	H ₂ O: 15-25%

*Additional particle size available on request.

Packaging

Sofnofil is available in 20kg kegs. A full pallet holds 32 kegs and measures: 120cm(w) x 100cm(d) x 110cm(h)

Properties

The unique manufacturing process presents high levels of permanganate on an open, accessible pore structure within the Sofnofil beads.

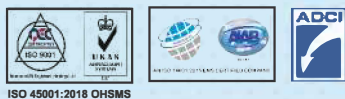
The following properties result:

- High mechanical strength
- Low dust formation
- Low air flow resistance
- High contaminant capacity

Quality

Molecular Products Ltds aim is to manufacture chemical products which satisfy completely the needs of our customers. All products are rigorously tested to ensure conformance to the specification. Our activities comply to the requirements of ISO9001:2008.





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Safety Data Sheet



Product name:

Sofnofil

Safety Data Ref: 22

Initial issue date: 07 October 2014

Revision date: 01 June 2015

Version number: 11

IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY

1.1	Product identifier	Sofnofil (impregnated activated alumina)
1.2	Relevant use(s)/misuse(s)	An odour absorbent for industrial air purification (e.g. in paper mills, sewage treatment)
1.3	SDS supplier	Molecular Products Ltd, Parkway, Harlow Business Park, Harlow, Essex, CM19 5FR, UK
1.4	Emergency contact	+44 (0) 1279 445111 (office hours) / +44 (0)1865 407333 (24 hour emergency number, English speaking) trevor@rising-hsande.co.uk (competent person email)
	Emergency contact (other)	China +86 512 8090 3042, China (NRCC): +86 532 8388 9090, Mexico: +52 555 004 8763, Chile: +56 225 829 336, Brazil: +55 11 3197 5891

HAZARD IDENTIFICATION

2.1	Classification of the substance or mixture		
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)	Not classified	
2.1.2	See section 16 for full text of H statements		
2.2	Labelling elements		
2.2.1	Labelling in accordance with EC Regulation No 1272/2008 (CLP/GHS)		
	Pictogram	None	Signal word: None
	Hazard statements	None	
	Precautionary statements	None	
2.3	Other hazards		
	Dust may cause irritation of skin and eyes		

COMPOSITION / INFORMATION ON INGREDIENTS

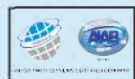
Chemical characterisation	CAS-No	EINECS/ELINCS	Classification	Concentration
Aluminium oxide	1344-28-1	215-619-6	Not classified	> 80%
Potassium permanganate	7722-64-7	231-760-3	CLP: Ox. Sol. 2 H272; Acute Tox. 4 H302; Aquatic Acute 1 H400; Aquatic Chronic 1 H410 (see section 16)	< 6%

FIRST AID MEASURES

4.1	Description of measures	
	Inhalation	Remove casualty to fresh air and provide warmth and rest
	Skin contact	Clean areas of skin affected with soap and plenty of water. If necessary, seek medical advice
	Eye contact	Wash out eye thoroughly with plenty of water until irritation subsides; if necessary, consult an eye specialist/ophthalmologist
	Ingestion	If product is swallowed, do not induce vomiting. Drink plenty of water and, if necessary, seek medical advice
4.2	Most important effects/symptoms	None known
4.3	Immediate/special treatment	Treatment as described above

REGULATING MEASURES

5.1	Extinguishing media	To suit local surroundings (e.g. chemical powder, carbon dioxide, dry sand, water)
5.2	Special hazards	Product is not flammable. No hazards except low volumes of oxygen may be released in a fire
5.3	Advice for fire fighters	Self-contained breathing apparatus may be required



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ACCIDENTAL RELEASE MEASURES		
6.1	Personal precautions	Adhere to personal protective measures. Avoid inhalation of dust
6.2	Environmental precautions	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once
6.3	Methods and materials for cleaning up	In the event of spillage, take up mechanically (e.g. sweep or vacuum up) into tightly closed containers. Adhere to personal protective measures
6.4	Reference to other sections	See section 8 for personal protective equipment

HANDLING AND STORAGE		
7.1	Precautions for safe handling	Handle in accordance with good hygiene and safety practice. Avoid the raising and deposition of dust
7.2	Conditions for safe storage	Ensure adequate ventilation of the storage area. Keep containers tightly closed, at temperatures < 190°C and dry
7.3	Specific end use(s)	An odour absorbent for industrial air purification

EXPOSURE CONTROLS / PERSONAL PROTECTION			
8.1	Workplace Exposure Limits (WELs) have been assigned by the HSE (EH40/2011)		
	LTEL (8 hour TWA)	10 mg/m ³	Data for inhalable aluminium oxide dust
	LTEL (8 hour TWA)	4 mg/m ³	Data for respirable aluminium oxide dust
8.2	Exposure controls		
	Engineering controls	Provide adequate ventilation (e.g. local exhaust ventilation)	
	Personal protection	Observe normal standards for handling chemicals Wash hands before breaks and after work Avoid inhalation of dust if raised Wear personal protective equipment appropriate to the task (see below)	
	Eye protection	Safety goggles if risk of eye contamination	
	Skin protection	Suitable rubber gloves (consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)	
	Respiratory protection	Approved dust mask for dust if ventilation is insufficient	
	Other protection	Protective overalls	

PHYSICAL AND CHEMICAL PROPERTIES			
9.1	Basic physical and chemical properties		
	Physical form	Solid	Colour
			Purple (brown after use)
	Odour	Odourless	pH
			Not determined
	Boiling pt/range	Not determined	Melting pt/range
			Not determined
	Flash point	Not applicable	Relative density
			3.3 g/cm ³
	Water solubility	Slight. Potassium permanganate will leach out to give purple/brown colour	Odour threshold
			Not applicable
	Evaporation rate	Not applicable	Flammability
			Not applicable
	Explosion limits	Not applicable	Vapour pressure
			Not applicable
	Vapour density	Not applicable	Partition coeff. LogPoct/water
			Not applicable
	Auto-ignition temperature	Not applicable	Viscosity
			Not applicable
	Explosive properties	Not determined	Oxidising properties
			Not determined
	Decomposition temperature	Not determined	
9.2	Other information	None known	

STABILITY AND REACTIVITY		
10.1	Reactivity	None known
10.2	Chemical stability	Stable under normal conditions of handling
10.3	Hazardous reactions	Hazardous polymerisation will not occur
10.4	Conditions to avoid	Contact with oxidisable material and temperatures > 190°C
10.5	Incompatible material	Oxidisable materials
10.6	Hazardous decomposition products	None

TOXICOLOGICAL INFORMATION		
11.1	Information on toxicological effects	
	Acute toxicity	LD ₅₀ rat (oral) No data available
	Dermal compatibility	No data available
	Mucous membrane	No data available
	Further information	None



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ECOLOGICAL INFORMATION						
12.1	Toxicity	LC ₅₀	Aquatic organisms		mg/l	No data available
12.2	Degradability	Not determined	12.3	Bioaccumulative potential	Not determined	
12.4	Mobility in soil	Not determined	12.5	PBT/vPvB assessment	Not applicable	
12.6	Other adverse effects	None known				

3 DISPOSAL CONSIDERATIONS	
Advice on disposal	If possible, recycle to supplier or approved recycling company. If not (e.g. designated as waste), dispose of in accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005
Contaminated packaging	Treat empty containers in the same way as the product. If possible wash out thoroughly and recycle

4 TRANSPORT INFORMATION						
14.1	United Nations number (ADR, IMDG, IATA)	Not classified	14.2	Proper shipping name (ADR, IMDG, IATA)	Not classified	
14.3	Transport class(s) (ADR, IMDG, IATA)	Not classified	14.4	Packing group (ADR, IMDG, IATA)	Not classified	
14.5	Environmental hazards (ADR, IMDG, IATA)	The product should not be marked as a marine pollutant	14.6	Special procedures (ADR, IMDG, IATA)	Not applicable	
14.7	Transport in bulk	Not applicable				

15 REGULATORY INFORMATION	
Classification & labelling	The SDS has been updated in accordance with EC Regulation No 1272/2008 (CLP/GHS)

6 ADDITIONAL INFORMATION					
Further information	The SDS has been revised in accordance with EC Regulation 1272/2008 (CLP) Since the potassium permanganate is absorbed into the alumina and is not released, it does not contribute to the product classification				
	Comply with COSHH Regulations				
Hazard statements referred to in sections 2-15					
H272	May intensify fire; oxidiser		H400	Very toxic to aquatic life	
H302	Harmful if swallowed		H410	Toxic to aquatic life with long lasting effects.	
Sources of data	Other suppliers' safety data sheets, EH40 (2011)				
Date of issue	01/06/2015				
This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific problems					

SYNERGY INFRASTRUCTURE





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