

# Safety Data Sheet



Product name:

**Chemsorb<sup>®</sup> 1000**Safety Data Ref: 35  
Initial issue date: 01 April 2015  
Revision date: 23 May 2016  
Version number: 2

1 IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY	
1.1	Product identifier Chemsorb <sup>®</sup> 1000
1.2	Relevant use(s)/misuse(s) As a gas adsorbent (e.g. breathing air respirators)
1.3	SDS supplier Molecular Products Ltd, Parkway, Harlow Business Park, Harlow, Essex, CM19 5FR, UK
1.4	Emergency contact (global) +44 (0)1279 445111 (09:00-17:00, GMT) / +44 (0)1865 407333 (24 hr 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

2 HAZARDS IDENTIFICATION	
2.1	Classification of the substance or mixture
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)      2.1.2      Classification according to EC 67/548/EEC and 1999/45/EC
	Not classified      Not classified
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
	The product contains a substance that has a workplace exposure limit (WEL)

3 COMPOSITION / INFORMATION ON INGREDIENTS	
Chemical characterisation	Activated carbon virgin coconut shell
Chemical name	CAS-No      EINECS/ELINCS      Classification      Concentration
Activated carbon REACH Registration No. 01-2119488894-16-0000	7440-44-0      231-153-3      CHIP: Not classified CLP: Not classified      > 95%

4 FIRST AID MEASURES	
4.1	Description of measures
	Inhalation      Remove casualty to fresh air. If necessary, seek medical advice
	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, call physician or poison centre. If professional advice is not available, do NOT induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Take a copy of the label and/or SDS with the victim to the health professional
4.2	Most important effects/symptoms None known
4.3	Immediate/special treatment Treat symptomatically

5 FIRE FIGHTING MEASURES	
5.1	Extinguishing media To suit local surroundings (e.g. water spray, carbon dioxide, foam or chemical powder)
5.2	Special hazards High dust levels in air may present an explosion hazard which may be ignited by sparks, flame or static discharge
5.3	Advice for fire fighters Self-contained breathing apparatus

6 ACCIDENTAL RELEASE MEASURES	
6.1	Personal precautions
6.1.1	Non-emergency personnel Adhere to personal protective measures laid forth in Section 8 of this SDS. Avoid inhalation of dust and remove ignition sources. Emergency procedures such as the need to evacuate requiring consultation of an expert
6.1.2	Emergency responders For large spills emergency personnel should wear protective coveralls, respiratory protection (dust mask), safety glasses and nitrile gloves
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 into tightly closed containers, ideally using grounded vacuum to prevent static discharge. Avoid using overly wet materials in case of an exothermic reaction. Do not sweep up dry dust because of risk of ignition. Adhere to personal protective measures. Label container and dispose of as prescribed
6.4	Reference to other sections	See section 8 for personal protective equipment

<b>7 HANDLING AND STORAGE</b>		
7.1	Precautions for safe handling	Handle in accordance with good hygiene and safety practice. Keep away from incompatible materials. Wet activated carbon removes oxygen from air causing a severe hazard (oxygen deficient atmosphere) to workers inside carbon vessels and enclosed or confined spaces. Establish Confined Space Entry Procedures before entering
7.2	Conditions for safe storage	Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and dry
7.3	Specific end use(s)	As a gas adsorbent

<b>8 EXPOSURE CONTROLS / PERSONAL PROTECTION</b>			
8.1	Workplace Exposure Limits (WELs) have been assigned by the HSE (EH40/2005)		
	TWA (8 hours)	10	mg/m <sup>3</sup>
	TWA (8 hours)	4	mg/m <sup>3</sup>
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 raising dust Wear personal protective equipment appropriate to the task (see below)	
	Eye protection	Chemical goggles or safety glasses with side shields	
	Skin protection	Rubber gloves (consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)	
	Respiratory protection	NIOSH approved dust respirator if conditions are dusty	
	Other protection	Protective overalls	

<b>9 PHYSICAL AND CHEMICAL PROPERTIES</b>				
9.1	Basic physical and chemical properties			
	Physical form	Amorphous solid	Colour	Black
	Odour	Odourless	pH	Not determined
	Odour threshold	Not applicable	Melting pt/range	Not determined
	Boiling pt/range	4000°C	Relative density	0.4 - 0.5 g/ml
	Flash point	Not determined	Evaporation Rate	Not available
	Water solubility	Insoluble	UEL/LEL	Not determined
	Vapour pressure	Not applicable	Vapour Density	Not applicable
	Auto-ignition temperature	Not determined	Decomposition Temperature	Not available
	Viscosity	Not applicable	Water content (as packed)	5% maximum

<b>10 STABILITY AND REACTIVITY</b>		
10.1	Reactivity	Stable under normal conditions of handling
10.2	Chemical stability	Stable under normal conditions of handling
10.3	Hazardous reactions	Hazardous polymerisation will not occur
10.4	Conditions to avoid	Heat - high temperatures
10.5	Incompatible material	Water reactive chemicals - strong oxidisers, strong acids
10.6	Hazardous decomposition products	Acrid smoke and irritating fumes - oxides of carbon

<b>11 TOXICOLOGICAL INFORMATION</b>			
11.1	Information on toxicological effects		
	Acute toxicity	LD <sub>50</sub> rat (oral) LC <sub>50</sub> rat (inhal)	> 10,000 mg/kg > 64,000 mg/m <sup>3</sup>
	Skin corrosion / irritation	Substance not corrosive	
	Serious eye damage / irritation	Substance not an irritant	
	Respiratory or skin sensitisation	Not sensitising	
	Germ cell mutagenicity	Not mutagenic	
	Carcinogenicity	Substance not carcinogenic	
	Reproductive toxicity	Not repro-toxic	
	STOT - single exposure	Not toxic on single exposure	

	STOT - repeated exposure	Not toxic on repeated exposure
	Aspiration hazard	No data
	Dermal compatibility	No data available
	Mucous membrane	No data available
11.2	Further information	This product is not a sensitiser and not expected to cause long-term adverse health effects, any mutagenic effects or reproductive or developmental health effects

<b>12 ECOLOGICAL INFORMATION</b>						
12.1	Toxicity	LC <sub>50</sub>	Aquatic organisms		mg/l	Not determined
12.2	Degradability	Readily biodegradable	12.3	Bio-accumulative potential	Not expected to bio-accumulate	
12.4	Mobility in soil	Not determined	12.5	PBT/vPvB assessment	Not applicable	
12.6	Other adverse effects	None known				

<b>13 DISPOSAL CONSIDERATIONS</b>		
13.1	Waste treatment methods	
13.1.1	Contaminated packaging disposal	Treat empty containers in the same way as the product. If possible wash out thoroughly and recycle
13.1.2	Waste treatment	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. Material is a special waste under UK legislation
13.1.3	Sewage disposal	Not recommended

<b>14 TRANSPORT INFORMATION</b>					
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			

<b>15 REGULATORY INFORMATION</b>		
15.1	Safety, health and environmental regulations	In accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations (CHIP 4) and EC Regulation 1272/2008 (CLP) the product is not classified. Other regulatory information and provisions are not applicable for this product
15.2	Chemical safety assessment	Not applicable

<b>16 OTHER INFORMATION</b>	
Further information	The SDS has been revised in accordance with EC Regulation 1272/2008 (CLP)
	Comply with COSHH Regulations
Sources of data	Other suppliers' safety data sheets, Annex VI of the CLP Regulation (EC) No 1272/2008, EH40 (2011)
Date of issue	23 May 2016
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	