Safety Data Sheet

Product name:
Chemsorb® 1505

Safety Data Ref: 39
Initial issue date: 01 April 2015
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Version number: 3

molecular

1	IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY	
1.1	Product identifier	Chemsorb® 1505
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, plus additives			
	Chemical name	CAS-No	EINECS/ELINCS	Classification	Concentration
	Activated Carbon REACH Registration No. 01-2119488894-16-XXXX	7440-44-0	231-153-3	CHIP: Not classified CLP: Not classified	76%
	Trometamol	77-86-1	201-064-4	CHIP: Xi: R36/37/38 CLP: Skin Irrit. 2 H315; Eye Irrit. 2 H319; STOT SE3 H335	<8%

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 for a minimum of 15-minutes and 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

7	HANDLING AND STORAGE	
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

8	EXPOSURE CONTROLS / PERSONAL PROTECTION				
8.1	Workplace Exposure Limits (WELs) have been assigned by the HSE (EH40/2005)				
	LTEL (8 hours)	ppm	10	mg/m^3	Inhalable dust
	LTEL (8 hours)	ppm	4	mg/m^3	Respirable 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 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			

9	PHYSICAL AND CHEMICAL PROPERTIES			
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	0.46 - 0.56 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		

10	STABILITY AND REACTIVITY	
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, nitrogen

11	TOXICOLOGICAL INFORMATION			
11.1	Information on toxicological effects			
	Acute toxicity	LD_{50} rat (oral) LC_{50} rat (inhal) LD_{50} rat (oral)	> 10,000 mg/kg > 64,000 mg/m^3 > 5900 mg/kg	Data for activated carbon Data for activated carbon Data for trometamol
	Dermal compatibility	No data available		
	Mucous membrane	No data available		
	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		
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		

12	ECOLOGICAL INFORMATION					
12.1	Toxicity	LC_{50}	Aquatic organisms		mg/l	Not determined
12.2	Degradability	Not determined	12.3	Bioaccumulative 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				

13	DISPOSAL CONSIDERATIONS	
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

14	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)	Not classified	14.6	Special procedures (ADR, IMDG, IATA)	Not applicable
14.7	Transport in bulk	Not applicable			

15	REGULATORY INFORMATION	
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

16	OTHER INFORMATION			
	Further information	The SDS has been prepared in accordance with EC Regulation 1272/2008 (CLP)		
	Hazard statements and Risk phrases referred to in sections 3			
	H315	Causes skin irritation	H335	May cause respiratory irritation.
	H319	Causes serious eye irritation	R36/37/38	Irritating to eyes, respiratory system and skin
	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 June 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			