

# Safety Data Sheet



Product name:

## Chemsorb® I425

Safety Data Ref: 38  
Initial issue date: 30 March 2015  
Revision date:  
Version number: 1

1 IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY	
1.1	Product identifier Chemsorb I425
1.2	Relevant use(s)/misuse(s) For removal of airborne ammonia and amines (e.g. in breathing air respirators)
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

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
2.1.2	See section 16 for full text of H and R phrases
2.2	Labelling elements
2.2.1	Labelling in accordance with EC Regulation No 1272/2008 (CLP/GHS)
	Pictogram(s) None Signal word None
	Hazard statements None Precautionary statements None
2.3	Other hazards
	THE PREPARATION 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. 01-2119488894-16-0000	7440-44-0 231-153-3 CHIP: Not classified CLP: Not classified	> 60%
Phosphoric acid	7664-38-2 231-633-2 CHIP: C: R34 CLP: Skin Corr. 1B H314	< 30%

4 FIRST AID MEASURES	
4.1	Description of measures
	Inhalation Not a normal route of exposure
	Skin contact Immediately clean areas of skin affected with soap and plenty of water. If necessary, seek medical advice
	Eye contact Immediately 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 Not applicable
4.3	Immediate/special treatment Treatment as described above

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 The product may give rise to hazardous fumes in a fire. Heavy carbon dust in air presents a dust explosion hazard
5.3	Advice for fire fighters Self-contained breathing apparatus may be required

6 ACCIDENTAL RELEASE MEASURES		
6.1	Personal precautions	Adhere to personal protective measures. Avoid inhalation of dust if raised
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)	For removal of airborne ammonia and amines

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 <sup>3</sup>	Inhalable dust
	LTEL (8 hours)	ppm	4	mg/m <sup>3</sup>	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 contact with skin and eyes. 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	Rubber gloves (consider your own risk assessment, e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)			
	Respiratory protection	Approved dust mask or respirator (e.g. EN 149:2001 FFP3) for dust if ventilation is insufficient			
	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	2.3 (ASTM D2867)
	Boiling point/range	ca. 4000°C	Melting pt/range	Not determined
	Flash point	Not applicable	Apparent density	0.66-0.69 g/ml
	Water solubility	Insoluble	Other	Not flammable

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 oxidizers, strong bases
10.6	Hazardous decomposition products	Acrid smoke and irritating fumes - oxides of carbon and phosphorus

11 TOXICOLOGICAL INFORMATION			
11.1 Information on toxicological effects			
	Acute toxicity	LD <sub>50</sub> rat (oral) LC <sub>50</sub> rat (inhal) LD <sub>50</sub> rat (oral)	> 10,000 mg/kg > 64,000 mg/m <sup>3</sup> 1530 mg/kg Data for activated carbon Data for activated carbon Data for phosphoric acid
	Dermal compatibility	No data available	
	Mucous membrane	No data available	
	Further information	This product is 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 <sub>50</sub>	Aquatic organisms		mg/l	Not determined
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				

13 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. Material is a special waste under UK legislation
Contaminated packaging	Treat empty containers in the same way as the product. If possible wash out thoroughly and recycle

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)	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		
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 phosphoric acid is absorbed onto the active carbon thereby reducing the pH which results in the product not being classified. However, although the product is not classified as being irritant to both eyes and skin, since this is a possibility, the wearing of appropriate personal protective equipment is recommended.		
	Comply with COSHH Regulations		
Hazard statements and Risk phrases referred to in sections 2/3			
H314	Causes severe skin burns and eye damage.	R34	Causes burns
Sources of data	Other suppliers' safety data sheets, Annex VI of the CPL Regulation (EC) No 1272/2008, EH40 (2011)		
Date of issue	30/03/2015		
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			