

Safety Data Sheet



Product name:

Chemsorb® 620


Safety Data Ref: 33

Initial issue date: 01 April 2015

Revision date:

Version number: 1

1 IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY	
1.1	Product identifier Chemsorb 620
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 (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)
	Aquatic Chronic 2 H411
2.2	Labelling elements
2.2.1	Labelling in accordance with EC Regulation No 1272/2008 (CLP/GHS)
	Pictogram 
	Signal word NONE
	Hazard statements
	H411 Toxic to aquatic life with long lasting effects
	Precautionary statements
	P273 Avoid release to the environment
	P281 Use personal protective equipment as required
2.3	Other hazards
	The product contains substances that have 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
	Activated Carbon REACH Registration No. 01-2119488894-16-0000	7440-44-0	231-153-3	CLP: Not classified
	Zinc chloride	7646-85-7	231-592-0	CLP: Acute Tox. 4 H302; Skin Corr. 1B H314; Aquatic Acute 1 H400; Aquatic Chronic 1 H410 (see section 16)
				Concentration
				> 70%
				<25%

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 presents an explosion hazard and 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	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 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 adsorber

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
	LTEL (8 hours)	ppm	1	mg/m ³	Zinc chloride fume
	STEL (15 mins)	ppm	2	mg/m ³	Zinc chloride fume
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	6.1 (ASTM D2867)
	Boiling pt/range	4000°C	Melting pt/range	Not determined
	Flash point	Not determined	Density	0.59-0.64 g/ml
	Water solubility	Insoluble	Odour threshold	Not determined
	Evaporation rate	Not applicable	Flammability	Not applicable
	Explosion limits	Not applicable	Vapour pressure	Not applicable
	Vapour pressure	Not applicable	Partition coeff. LogP _{oct} /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			

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	Strong oxidizers, strong acids
10.6	Hazardous decomposition products	Acrid smoke and irritating fumes - oxides of carbon and zinc

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 ³ 350 mg/kg	Data for activated carbon Data for activated carbon Data for zinc chloride	
Dermal compatibility	No data available			
Mucous membrane	No data available			
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 bioaccumulate.	
12.4 Mobility in soil	Not determined	12.5 PBT/vPvB assessment	Not applicable	
12.6 Other adverse effects	Toxic to aquatic life with long lasting effects			

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)	UN 3077 	14.2 Proper shipping name (ADR, IMDG, IATA)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC CHLORIDE)	
14.3 Transport class(s) (ADR, IMDG, IATA)	9	14.4 Packing group (ADR, IMDG, IATA)	III	
14.5 Environmental hazards (ADR, IMDG, IATA)	The product should 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 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) Although the product contains a corrosive substance, it is not classified as such due to the pH
	Comply with COSHH Regulations
Sources of data	Other suppliers' safety data sheets, Annex VI of the CPL Regulation (EC) No 1272/2008, EH40 (2011)
Date of issue	01/04/2015
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	