

Safety Data Sheet



Product name:

Chemsorb® I6103

Revised edition no: I62 - Rev G

Date: 25 SEP 2017

Supersedes: Revision edition no: I62 – Rev F

Section 1	PRODUCT AND COMPANY IDENTIFICATION	
	Product Name	Chemsorb® I6103
	CAS Number	Mixture
	Product Use	Impregnated Adsorbent
	Supplier / Manufacturer's Name	Molecular Products Inc (a subsidiary of Molecular Products Group) 6837 Winchester Circle, Boulder, CO, 80301, USA
	Emergency Contact	1-888-665-7763 (Hours: 7:00AM – 5:00PM Mountain Time)
	Date of Initial Preparation	19 February 2001
	Date of Previous Revision	24 September 2013

Section 2	HAZARDS IDENTIFICATION	
	Emergency Overview	This product is an amorphous black solid with no odor. Warning! Wet activated carbon removes oxygen from the air and can lower the concentration levels within confined spaces. Exposure can be irritating to eyes, respiratory system and skin. Harmful by inhalation and ingestion. It is a non-flammable solid. Excessive airborne dust creates a dust explosion hazard. The Environmental effects of this product have not been investigated; however, this product is not expected to have any adverse effects.
	GHS Hazard Symbols	N/A
	GHS Hazard Classification(s)	Acute Aquatic Toxicity Category 2.
	Hazard Statement(s)	H401 Toxic to aquatic life.
	Precautionary Statement(s)	P273: Avoid release to the environment P501: Dispose of contents in accordance with local, regional or national laws
	Other Hazard Information	This product contains substances that have a workplace exposure limit (WEL). Please note that the hazardous components of this mixture are adsorbed onto the activated carbon. Activated carbon does not pose a high health hazard and this product should not pose a high health hazard or environmental risk unless decomposed.
	Risk Phrases	N/A
	Safety Phrases	S9: Keep container in a well-ventilated area S22: Do not breath dust S24/25: Avoid contact with skin and eyes S36/37/38: Wear suitable protective clothing, gloves and eye/face protection S45: In case of an accident or if you feel unwell, seek medical advice immediately

Section 3	COMPOSITION AND INFORMATION ON INGREDIENTS			
	Composition	Activated carbon, virgin coconut shell plus additives		
	Substance name	Content	CAS No	Classification***
	Carbon, Activated	7440-44-0	>80%	None
	Copper II Oxide	1317-38-0	<8%	Hazard Classification: H400, H412
	Molybdenum	7439-98-7	<2%	None
	Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).			

Section 4	FIRST-AID MEASURES	
	Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and SDS to health professional with contaminated individual.	
	Eye Contact	If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention.

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Section 4	FIRST-AID MEASURES	
	Skin Contact	Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before re-use.
	Inhalation	If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.
	Ingestion	If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.
	Health Hazards or Risks from Exposure	<i>Acute:</i> Exposure to this product may cause mechanical irritation to eyes, respiratory system and skin. <i>Inhalation:</i> Avoid use in confined spaces. Wet activated carbon can absorb and remove oxygen from the air causing a severe inhalation hazard to workers. Inhalation of dusts may cause nose, throat and respiratory tract irritation and possible lung damage. <i>Eye:</i> May cause mechanical irritation with pain and redness. <i>Skin:</i> May cause irritation. <i>Ingestion:</i> May cause irritation to gastrointestinal tract. <i>Chronic:</i> Prolonged exposure may cause liver damage or central nervous system damage.
	Target Organs	<i>Acute:</i> Eye, Respiratory System, Skin <i>Chronic:</i> None known
	Medical Conditions Aggravated by Exposure	Pre-existing skin, respiratory system or eye problems may be aggravated by prolonged contact.
	Recommendations to Physicians	Treat symptoms and reduce over-exposure.

Section 5	FIRE-FIGHTING MEASURES	
	Flash Point	Non-Flammable
	Auto-Ignition Temperature	Not Applicable
	Flammable Limits (in air by volume, %)	<i>Lower (LEL):</i> Not Applicable <i>Upper (UEL):</i> Not Applicable
	Fire Extinguishing Materials	As appropriate for surrounding fire. Carbon dioxide, foam, dry chemical, halon, or water spray. Do not release runoff from fire control methods to sewers or waterways.
	Unusual Fire and Explosion Hazards	High dust concentration may form explosive mixtures with air, which can be ignited by spark, flame or static discharge.
	Explosion Sensitivity to Mechanical Impact	Not Sensitive
	Explosion Sensitivity to Static Discharge	Sensitive (Air/Dust mixtures)
	Special Fire-Fighting Procedures	Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

Section 6	ACCIDENTAL RELEASE MEASURES	
	Spill and Leak Response	Personnel should be trained for spill response
	Spill Response PPE	Coveralls, dust mask, safety glasses or goggles, nitrile gloves
	Clean up Procedure	Contain spill if safe to do so. Prevent entry into drains, sewers, and other waterways. Sweep, shovel or vacuum (HEPA vacuum) spilled material and place in an appropriate container for re-use or disposal. Avoid dust generation if possible. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

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Section 7	HANDLING AND STORAGE	
Work Practices and Hygiene Practices		<p>As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing dusts generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately. Do not enter places where bulk material is used or stored until adequately ventilated to prevent asphyxiation.</p> <p>As with all finely divided materials, precautions should be taken to avoid inhalation and eye contact. Ground all transfer, blending and dust collecting equipment to prevent static discharge in accordance with NFPA 70, "National Electric Code;" NFPA 499, "Recommended Practice for the Classification of Combustible Dusts and of Hazardous (classified) Locations for Electrical Installations in Chemical Process Areas;" NFPA 654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids" and OSHA Combustible Dust standards. Remove all ignition sources from material handling, transfer and processing areas where dust may be present.</p>
Storage and Handling Practices		Containers of this product must be properly labeled. Store containers in a cool, dry location away from heat, flame and incompatible materials. Keep container tightly closed when not in use. Avoid buildup of static charge in handling equipment.
Incompatible Materials		Avoid contact with strong oxidizing agents, strong acids.

Section 8	EXPOSURE CONTROLS / PERSONAL PROTECTION			
Exposure Limits/Guidelines	Either local exhaust or general room ventilation is usually required			
Chemical Name	CAS #	ACGIH TWA	OSHA TWA	
Carbon, Activated	7440-44-0	10 mg/m ³ Dust	15 mg/m ³ Total Dust 5 mg/m ³ Resp.	
Copper II Oxide	1317-38-0	1 mg/m ³ TWA (dust and mist, as Cu)	1 mg/m ³ TWA (dust and mist, as Cu)	
Molybdenum	7439-98-7	10 mg/m ³ Dust	15 mg/m ³ Total Dust 5 mg/m ³ Resp.	
Currently, International exposure limits are established for the components of this product. Please check with competent authority in each country for the most recent limits in place.				
Ventilation and Engineering Controls				
Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne dust. Ensure eyewash/safety shower stations are available near areas where this product is used.				
Personal Protective Equipment				
The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.				
Respiratory Protection	Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.			
Eye protection	Safety glasses or chemical goggles are recommended. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.			
Hand Protection	Use protective gloves to minimize skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.			
Body Protection	Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.			

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Section 9	PHYSICAL AND CHEMICAL PROPERTIES	
	Physical State	Amorphous solid
	Appearance and Odor	Black Solid with no odor
	Odor Threshold (PPM)	None
	Vapor Pressure (mmHg)	Not Applicable
	Vapor Density (AIR=1)	Not Applicable
	Density	0.25 – 1.0 g/ml
	Evaporation Rate (nBuAc=1)	Not Applicable
	Boiling Point (°C)	Not Applicable
	Freezing Point (°C)	Not Applicable
	pH	No data available
	Specific Gravity 4° C (Water=1)	0.25 – 1.0
	Solubility in Water (%)	Insoluble
	VOC	0
	Upper Explosive Limit	Not Applicable
	Lower Explosive Limit	Not Applicable
	Flammability	Not Applicable
	Partition Coefficient	Not Applicable
	Decomposition Temperature	Not Determined
	Viscosity	Not Applicable

Section 10	STABILITY AND REACTIVITY	
	Stability	Product is stable
	Decomposition Products	Thermal decomposition (burning) may produce irritating and toxic fumes of carbon (carbon dioxide, carbon monoxide), and oxides of copper and molybdenum. The exact chemicals formed depend on many factors including temperature and heating rate.
	Materials with which Substance is Incompatible	Avoid contact with strong oxidizing agents, strong acids.
	Hazardous Polymerization	Will not occur
	Conditions to Avoid	Contact with incompatible materials and dust generation

Section 11	TOXICOLOGICAL INFORMATION	
	Toxicity: There is no available data for the product, only for the ingredients.	
	CAS# 7440-44-0 LC50, Inhalation – Rat	>64,400 mg/m ³
	CAS# 7440-44-0 LD50, Oral - Rat	>10,000 mg/kg
	CAS# 1313-27-5 LD50, Oral – Rat	>5,000 mg/kg
	CAS# 1313-27-5 LD50, Dermal – Rat	>2,000mg/kg
	CAS# 1313-27-5 LC50, Inhalation– Rat	>5.8 mg/l
	CAS# 7439-98-7 LD50, Oral-Rat	>5,000mg /kg
	CAS# 7439-98-7 LD50, Dermal-Rat	>2,000mg/kg
	Suspected Cancer Agent	None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

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Section 11	TOXICOLOGICAL INFORMATION	
	Irritancy	Contact with this product can be irritating to exposed skin, eyes and respiratory system.
	Sensitization	This product is not considered a sensitizer.
	Reproductive Toxicity	No information concerning the effects of this product and its components on the human reproductive system.
	Health Hazards or Risks from Exposure	<p><i>Acute:</i> Exposure to this product may cause mechanical irritation to eyes, respiratory system and skin.</p> <p><i>Inhalation:</i> Avoid use in confined spaces. Wet activated carbon can absorb and remove oxygen from the air causing a severe inhalation hazard to workers. Inhalation of dusts may cause nose, throat and respiratory tract irritation and possible lung damage.</p> <p><i>Eye:</i> May cause mechanical irritation with pain and redness.</p> <p><i>Skin:</i> May cause irritation.</p> <p><i>Ingestion:</i> May cause irritation to gastrointestinal tract.</p> <p><i>Chronic:</i> Prolonged exposure may cause liver damage or central nervous system damage.</p>
	Target Organs	<p><i>Acute:</i> Eye, Respiratory System, Skin</p> <p><i>Chronic:</i> None known</p>

Section 12	ECOLOGICAL INFORMATION	
	All work practices must be aimed at eliminating environmental contamination.	
	Environmental Stability	The ecological characteristics of this product have not been fully investigated. The product should not be discharged unmonitored into the environment.
	Effect of Material on Plants or Animals	No evidence is currently available on this product's effects on plants or animals.
	Effect of Chemical on Aquatic Life	No Data Available for this product at this time.
	<i>Note: This product is readily biodegradable and is not expected to bio-accumulate</i>	

Section 13	DISPOSAL CONSIDERATIONS	
	Preparing Wastes for Disposal	Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

Section 14	TRANSPORTATION INFORMATION	
	U.S. DOT, IATA, IMO, and ADR	THIS PRODUCT* IS NOT HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.
	*Note: Carbons made by steam activation process are not subject to the provision of UN Class 4.2	
	Proper Shipping Name	Non-regulated material
	Hazard Class Number and Description	Not Applicable
	U.N. Identification Number	Not Applicable
	Packing Group	Not Applicable
	DOT Label(s) Required	Not Applicable
	North American Emergency Response Guidebook Number (2004)	Not Applicable
	Marine Pollutant	None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)
	This product is NOT considered spontaneously combustible under the "Self-Heating Test for Carbon" protocol listed in the United Nations' Manual of Tests and Criteria [33.3.1].	
	U.S. Department of Transportation (DOT) Shipping Regulations	This product is not classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.
	Transport Canada, Transportation of Dangerous Goods Regulation	This product is not classified as Dangerous Goods, per regulations of Transport Canada.

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Section 14	TRANSPORTATION INFORMATION	
	International Air Transport Association (IATA)	This product is not classified as Dangerous Goods, by rules of IATA: Not restricted per Special Provision A3
	International Maritime Organization (IMO) Designation:	This product is not classified as Dangerous Goods by the International Maritime Organization.
	European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR)	This product is not classified by the United Nations Economic Commission for Europe to be dangerous goods.

Section 15	REGULATORY INFORMATION	
	United States Regulations	
	SARA Reporting Requirements	This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows:
	Toxic Control Substance Act (TCSA)	All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.
	SARA 311/312	Acute Health: No Chronic Health: No Fire: No Reactivity: No
	SARA 313	This product does not contain any ingredients which are subject to reporting requirements.
	U.S. SARA Threshold Planning Quantity	There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.
	U.S. CERCLA Reportable Quantity (RQ)	CERCLA Reportable Quantity (RQ), None.
	Clean Water Act (CWA)	None of the chemicals in this product are listed as Hazardous Substances under the CWA.
	State Regulations	CAS# 1317-38-0 can be found on the following state right to know lists: New Jersey and Pennsylvania
	California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)	None of the ingredients are on the California Proposition 65 lists.
	Canadian Regulations	
	Canadian DSL/NDSL Inventory Status	CAS# 1317-38-0 is on the DSL Inventory
	Canadian Environmental Protection Act (CEPA) Priorities Substances Lists	No component of this product is on the CEPA First Priorities Substance Lists.

Section 16	OTHER INFORMATION	
	Prepared By	Hellman & Associates, Inc.
	Disclaimer: The information in this safety data sheet is based on the best knowledge available at the time and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular application. As the specific conditions of use are outside the control of the supplier, the user is responsible for ensuring that the product is used in a safe way and in compliance with the relevant requirements of legislation.	
	Date of issue	25 SEP 2017