

MATERIAL SAFETY DATA SHEET

DATE August 1985



PRODUCT NAME IVP ACTIVATED CARBON

SECTION I

MANUFACTURER'S NAME Calgon Carbon Corporation	EMERGENCY TELEPHONE NO. 412-787-6700
ADDRESS P.O. Box 717 Pittsburgh, PA 15230-0717	
CHEMICAL NAME AND SYNONYMS Carbon impregnated with sodium hydroxide	FORMULA C, NaOH

SECTION II HAZARDOUS INGREDIENTS

PRINCIPAL HAZARDOUS COMPONENT (S)	CAS #	% BY WEIGHT	ORAL LD ₅₀	DERMAL LD ₅₀	TLV (Units)		
					ACGIH	OSHA	OTHER
Chemical Name: Carbon Common Name: Activated Carbon	7440-44-0	78-73%	>10g/Kg* (rat)		N/A	N/A	N/A
Chemical Name: Sodium Hydroxide Common Name: Caustic Soda	1310-73-2	7-12%	N/A		N/A	N/A	N/A
Chemical Name:							
Common Name:							
Chemical Name:							
Common Name:							
Chemical Name:							
Common Name:							

*No animal mortalities during course of 14-day study with IVP activated carbon.

CAUTION!! Wet activated carbon removes oxygen from air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces. Before entering such an area, sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, observing all local, state, and federal regulations.

The product is non-hazardous according to the definitions for "health hazard" and "physical hazard" provided in the OSHA Hazard Communication Law (29 CFR part 1910).

SECTION III PHYSICAL DATA

BOILING POINT (° F)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	N/A
VAPOR PRESSURE (mmHg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	9.75% as water vapor
VAPOR DENSITY (AIR=1)	N/A	pH	10
SOLUBILITY IN WATER	10%	OTHER packing density	0.6 - 0.7g/cc

APPEARANCE AND ODOR black particulate solid

While this information and recommendations set forth herein are believed to be accurate as of the date hereof, CALGON CARBON CORPORATION MAKES NO WARRANTY WITH RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used)

N/A

EXTINGUISHING MEDIA

If involved in fire, flood with plenty of water.

SPECIAL FIRE FIGHTING PROCEDURES

None

UNUSUAL FIRE AND EXPLOSION HAZARDS

IVP product in large vessels (≥ 10 ft. dia.) under static conditions is susceptible to exothermic reaction on contact with oxidizable material. Flooding the vessel with water will extinguish any hot zones. Copious volumes of steam will be generated in the process of extinguishing the hot zones. The carbon itself will not exhibit flaming although any combustible material in contact with it will.

SECTION V HEALTH HAZARD DATA

EFFECT OF OVEREXPOSURE

A. ACUTE

1. INGESTION

The product is non-toxic through ingestion. The acute oral LD_{50} (rat) is $>10g/Kg$.

2. INHALATION

The acute inhalation LC_{50} (rat) is $>194 mg/l$ (nominal concentration) for IVP product.

3. DERMAL EXPOSURE

a. TOXIC

Non-toxic for IVP product.

b. IRRITATION

The product is not a primary skin irritant. The primary skin irritation index (rabbit) is 0.

c. SENSITIZATION

None

4. EYE IRRITATION

The physical nature of the product may produce eye irritation.

B. SUBCHRONIC, CHRONIC, OTHER

The effects of long-term, low-level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposures.

FIRST AID

A. EYE

Flush with plenty of water for at least 15 minutes. Get prompt medical assistance if irritation persists.

B. SKIN

Wash with soap and water.

C. INGESTION

D. INHALATION

SECTION VI REACTIVITY DATA

STABILITY	STABLE	X	CONDITIONS TO AVOID	Do not leave large beds (>10 ft. dia.) in static state for long periods of time unless vessel sealed to prevent entrance of large volumes of air, etc.
	UNSTABLE			

INCOMPATIBILITY (Materials to Avoid) Avoid contact with vapor streams that have high concentration of combustible hydrocarbons.

HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide may be generated in the event of combustion.

SECTION VII SPILL OR LEAK PROCEDURES

REPORTABLE QUANTITIES (RQ) IN LBS OF EPA HAZARDOUS SUBSTANCES IN PRODUCT	1. _____	NOTIFY EPA OF PRODUCT SPILLS EQUAL TO OR EXCEEDING _____ LBS.
	2. _____	
	3. _____	

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Sweep up unused carbon and discard in refuse container or repackage.

WASTE DISPOSAL METHOD Dispose of unused carbon in refuse container. Dispose of in accordance with local, state, and federal regulations.

SECTION VIII HANDLING & STORAGE

PROTECTIVE GLOVES Rubber gloves recommended	EYE PROTECTION Safety glasses or goggles recommended
---	--

OTHER PROTECTIVE CLOTHING Not required

RESPIRATORY PROTECTION A NIOSH approved particulate filter respirator is recommended if excessive dust is generated.

VENTILATION	LOCAL EXHAUST Recommended	OTHER
	MECHANICAL (General) Recommended	

STORAGE & HANDLING
CAUTION!! Wet activated carbon removes oxygen from air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces. Before entering such an area, sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, observing all local, state, and federal regulations.

CAUTION!! Do not leave large vessels (>10 ft. dia.) of IVP in a static state for long periods of time unless the vessel is sealed to prevent entrance of large volumes of air and/or organic vapors.

OTHER PRECAUTIONS Wash thoroughly after handling. Exercise caution in the storage and handling of all chemical substances. Fines generated by attrition during handling of the IVP product generally contain a higher level of impregnate than the actual product.