



# Material Safety Data Sheet

U.S. Department of Labor  
 Occupational Safety and Health Administration  
 This form is consistent with ANSI standard for  
 preparation of MSDS's in accordance with  
 OSHA's Hazard Communication Standard,  
 29 CFR 1910.1200.

<b>Product Type: FLUEPAC CF PLUS</b>	
<b>Product Code: 2183</b>	<b>Profile No: 51</b>

## SECTION I

Company Identification (USA)	<b>Calgon Carbon Corporation</b> P.O. Box 717 Pittsburgh, PA 15230-0717	
Telephone Number(s)	Information	412-787-6700
	Emergency	412-787-6700
Company Identification (Europe)	<b>Chemviron Carbon</b> Zoning Industriel de Feluy B-7181 Feluy, Belgium	
Telephone Number(s)	Information	32 64 51 18 11
	Emergency	32 64 51 18 11
Date Prepared: November 3, 2008	Signature of Preparer: (optional)	

## SECTION II – COMPOSITION /INFORMATION ON INGREDIENTS

Nonhazardous components are listed at 3% or greater; acute hazards are listed when present at 1% or greater and chronic hazards are listed when present at 0.01% or greater. This is not intended to be a complete compositional disclosure.

<b>Ingredient / Component</b>	<b>CAS No</b>	<b>% by Wt</b>
Steam Activated Carbon	7440-44-0	> 85
Proprietary component	proprietary	< 15

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## SECTION III – HAZARD(S) IDENTIFICATION

<b>Emergency Overview:</b> Caution! May be harmful if swallowed or inhaled. May cause irritation to skin, eyes, and respiratory tract.			
<b>OSHA Regulatory Status:</b>			
<b>HMIS Ratings:</b>	Health	2	4 = Extreme/Severe 3 = High/Serious 2 = Moderate 1 = Slight 0 = Minimum w = Water Reactive ox = oxidizer
(NFPA)	Flammability	0	
	Reactivity	1	
	Special		
<b>Protective Equipment</b>	See Section VIII		
<b>Health Effects:</b>	See Section IV		
<b>Environmental Effects:</b>	See Section XII		

## SECTION IV – FIRST-AID MEASURES

<b>Route of exposure</b>	
<b>Eyes</b>	Moderately irritating to the eyes
<b>Inhalation</b>	Moderately irritating to respiratory tract
<b>Skin</b>	Moderately irritating to the skin
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation and diarrhea
<b>Signs/Symptoms of Exposure</b>	Irritant to eyes, skin and respiratory track. Long term ingestion may cause depression, psychoses, irritability, and headache.
<b>Emergency and First Aid Procedures</b>	Rinse eyes with water. Supply fresh air. Wash skin with soap and water. Seek medical advice.
<b>Medical Conditions Generally Aggravated by Exposure</b>	Repeated exposure may cause irritation or dermatitis.

## SECTION V – FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Use an extinguishing media suitable for surrounding fire
<b>Unsuitable Extinguishing Media</b>	Not known
<b>Specific Hazards</b>	Not available
<b>Protective Equipment and Procedures</b>	Wear self-contained breathing respirator. Wear full protective suit

## SECTION VI – ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Wear protective equipment, keep unnecessary personnel away, ventilate area of spill
<b>Environmental Precautions</b>	Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.
<b>Containment &amp; Clean-up</b>	Vacuum or scoop up spilled material and place in appropriate container for disposal by incineration. Avoid creating dusty
<b>Other information</b>	

## SECTION VII – HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with eyes and skin. Protect containers from physical damage.
<b>Storage</b>	Keep container closed and store in a cool, dry ventilated area. There are no special precautions.

## SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Component</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>Other limits</b>
Activated Carbon	Non Defined	Non Defined	
Proprietary Component	Non Defined	Non Defined	
<b>Exposure Guidelines</b>	Not defined		
<b>Engineering Controls</b>	No special ventilation requirements. Good general ventilation should be adequate		
<b>Personal Protective Equipment</b>	The usual precautionary measures for handling chemicals should be followed, i.e. safety glasses w/side shields, long sleeve lab coat, dust respirator if dusty, etc		
<b>General Hygiene</b>	The usual precautionary measures for handling chemicals should be followed, i.e. Keep away from food and beverage, remove contaminated clothing immediately, wash hands before breaks or eating, avoid contact with eyes and skin, etc.		

## SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point</b>	NA	<b>Melting Point</b>	NA
<b>Vapor Pressure (mm Hg.)</b>	0	<b>Evaporation Rate</b>	NA
<b>Vapor Density (AIR = 1)</b>	solid	<b>Flash Point</b>	NA
<b>Specific Gravity</b>	0.4 – 0.8	<b>UEL</b>	NA
		<b>LEL</b>	NA
<b>Flammability Limits</b>	Ignition Temperature > 220° C		
<b>Odor</b>	None		
<b>Solubility in Water</b>	Soluble impregnant		
<b>Appearance</b>	Black granular material		

## SECTION X – STABILITY AND REACTIVITY

<b>STABILITY</b>	<b>UNSTABLE</b>		<b>CONDITIONS TO AVOID:</b> None
	<b>STABLE</b>	<b>YES</b>	
<b>HAZARDOUS REACTION</b>	<b>MAY OCCUR</b>		<b>CONDITIONS TO AVOID:</b> None
	<b>WILL NOT OCCUR</b>	<b>YES</b>	
<b>Incompatible Materials</b>			Avoid oxidizing materials and acids
<b>Hazardous Decomposition Products</b>			Product contains halogenated compounds.

## SECTION XI – TOXICOLOGICAL INFORMATION

<b>Acute Effects</b>		
<b>Toxicity Studies</b>	Oral LD <sub>50</sub>	For 100% proprietary component (LD 50 Rat) = 3120 mg/kg
	Dermal LD <sub>50</sub>	Not determined
<b>Inhalation:</b>	See section IV	
<b>Ingestion:</b>	See section IV	
<b>Eye Irritation:</b>	See section IV	
<b>Skin Irritation:</b>	See section IV	
<b>Sensitization:</b>	None determined	
<b>Target Organ (s) or System</b>		Central Nervous System
<b>Signs and symptoms of Exposure</b>		See Section IV
<b>Chronic Effects</b>		
<b>Carcinogenicity:</b>	No	
<b>Mutagenicity:</b>	None determined	
<b>Reproductive Effects:</b>	None determined	
<b>Developmental Factors:</b>	None determined	

## SECTION XII – ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	No known significant effects or critical hazards.
<b>Persistence/degradability:</b>	The product and its degradation products have not been determined to be toxic
<b>Bioaccumulation/Accumulation:</b>	Not determined
<b>Mobility in Environmental Media:</b>	Not determined
<b>Other Adverse Effects:</b>	

## SECTION XIII – DISPOSAL CONSIDERATIONS

Sweep, shovel or vacuum carbon into a closed container. Avoid dispersal and contact with soil, waterways, drains and sewers.
Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

## SECTION XIV – TRANSPORT INFORMATION

<p><b>The information as presented below only applies to the material as shipped. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.</b></p>			
Land	DOT Regulations	Proper Shipping Description:	FLUEPAC MC Plus (Steam Activated Carbon)
	Canadian WHMIS	Hazard Class:	
		UN/NA:	
	Information reported for product/size:		
Water	IMO / IMDG	Proper Shipping Description:	FLUEPAC MC Plus (Steam Activated Carbon)
		Hazard Class:	
		UN/NA:	
	Information reported for product/size:		
Air	IACO / IATA	Proper Shipping Description:	FLUEPAC MC Plus (Steam Activated Carbon)
		Hazard Class:	
		UN/NA:	
	Information reported for product/size:		
<p><b>This product has been tested according to the <u>United Nations Transport of Dangerous Goods</u> test protocol for spontaneously combustible materials. It has been specifically determined that this product does not meet the definition of a self heating substance or any hazard class, and therefore is not a hazardous material and not regulated.</b></p>			

## SECTION XV – REGULATORY INFORMATION

<b>SARA Title III 302:</b>	No	
<b>SARA Title III 313:</b>	No	
<b>TSCA 8 (d)</b>	No	
<b>OSHA</b>	No	
<b>Canadian classification</b>	<b>WHMIS</b>	No
	<b>DSL #</b>	No
<b>EEC Council Directives relating to the classification, packaging, and labeling of dangerous substances and preparations.</b>		
<b>Risk Phrases</b>	R36 Irritating to eyes, R37 Irritating to respiratory system, R38 Irritating to skin,	
<b>Safety Phrase</b>	S22 Do not breath dust, S25 Avoid contact with eyes, S36 Wear suitable protective clothing	

## SECTION XVI – OTHER INFORMATION

<b>Intended Use:</b>	The material is generally used for treatment of liquids and/or gases.
The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for their own particular use.	
While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Calgon Carbon Corporation makes no warranty with respect to same and disclaims all liability for reliance there on.	

### References:

NA not applicable

### Legend:

ACGIH	- American Conference of Governmental Industrial Hygienists
ANSI	- American National Standards Institute
C	- Ceiling (limit value)
CAS #	- Chemical Abstracts Service Registry Number
CERCLA	- Comprehensive Environmental Response, Compensation, and Liability Act
CEPA	- Canadian Environmental Protection Act
CFR	- Code of Federal Regulations
DOT	- Department of Transportation
DSL	- Domestic Substances List
EINECS	- European Inventory of Existing Commercial Chemical Substances
ERAP	- Emergency Response Assistance Plan

IATA	- International Air Transportation Association
IARC	- International Agency for Research on Cancer
ICAO	- International Civil Aviation Organization
IDLH	- Immediately Dangerous to Life and Health
IMO	- International Maritime Organization
IMDG	- International Maritime Dangerous Goods
LC <sub>50</sub>	- The concentration of material in air expected to kill 50% of a group of test animals
LD <sub>50</sub>	- Lethal Dose expected to kill 50% of a group of test animals
NFPA	- National Fire Protection Association
NIOSH	- National Institute for Occupational Safety and Health
NTP	- National Toxicology Program
OSHA	- Occupational Safety and Health Association
PEL	- Permissible Exposure Limit
RCRA	- Resource conservation and Recovery Act
RQ	- Reportable Quantity
SARA	- Superfund Amendments and Reauthorization Act
STEL	- Short Term Exposure Limit
TDG	- Transportation of Dangerous Goods Act/Regulation
TLV	- Threshold Limit Value
TSCA	- Toxic Substances Control Act
TWA	- Time Weighted Average
WHMIS	- Workplace Hazardous Material Information System

\* \* \* END OF MATERIAL SAFETY DATA SHEET \* \* \*