



MATERIAL SAFETY DATA SHEET

Chemviron Carbon

FILE NO.:
MSDS DATE: 2/25/11

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Activated carbon

SYNONYMS:

PRODUCT CODES:

MANUFACTURER: SAS Safety Corp

DIVISION:

ADDRESS: 3031 Gardenia Ave Long Beach CA 90807

EMERGENCY PHONE: 800-255-3924

CHEMTREC PHONE:

OTHER CALLS: 562-427-2775

FAX PHONE: 800-244-1938

CHEMICAL NAME: Activated carbon

CHEMICAL FAMILY:

CHEMICAL FORMULA: Predominantly carbon that has been impregnated with one or more but not all of the following: copper, zinc, silver, TEDA, molybdenum, nickel, basic potassium salts, basic sodium salts, sulphur, potassium iodide, ammonium sulphate, phosphoric acid, sodium bromate.

PRODUCT USE:

PREPARED BY:

SECTION 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: Activated Carbon

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
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	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:			
OSHA PEL STEL :			
OSHA PEL CEILING:			

ACGIH TLV-TWA:			
ACGIH TLV STEL:			
ACGIH TLV CEILING:			

SECTION 2 NOTES:

Description	CAS Number	% By Weight
Activated Carbon	7440-44-0	>73
Copper	7440-50-8	<12
Zinc	1314-13-2	<6
Silver	7440-22-4	<0.5
TEDA	280-57-9	<4
Molybdenum	7439-98-7	<3
Nickel	7440-02-0	<8
Basic Potassium Salts	584-08-7	<15
Basic Sodium Salts	1310-73-2	<12
Sulphur	7704-34-9	<18
Potassium Iodide	7681-11-0	<12
Ammonium Sulphate	7783-20-2	<7
Phosphoric Acid	7664-38-2	<19
Sodium Bromate	7789-38-0	<8



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SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Wet activated carbon removes oxygen from air, causing 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 and national regulations. Contact with airborne dust may be slightly irritating to eyes and respiratory tract. A potential for ignition exists when large amounts of Centaur ST1, IVP, KINA, ST, ST1X, or Sulfasorb carbon, generally greater than about 400 liters, are subjected to convective or low flows of ambient air through the carbon in a confined space without adequate heat removal.

ROUTES OF ENTRY: Eyes, skin, ingestion, inhalation

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation

SKIN: The primary skin irritation index (Rabbit) is 0 for activated carbon. The inclusion of impregnants to the activated carbon is not expected to appreciably change this value.

INGESTION: The acute oral LD50 (Rat) is >1000 mg/kg for activated carbon. The inclusion of impregnants to the activated carbon is not expected to appreciably change this value.

INHALATION: The acute oral LD50 (Rat) is >64.4 mg/l (nominal concentration) for activated carbon. The inclusion of impregnants to the activated carbon is not expected to appreciably change this value.

ACUTE HEALTH HAZARDS:

CHRONIC HEALTH HAZARDS: the effects of long-term, low-level exposures to these products 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.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

CARCINOGENICITY

OSHA:

ACGIH:

NTP:

IARC:

OTHER:

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Flush with plenty of water for at least 15 minutes

SKIN: Wash with soap and water

INGESTION: N/A

INHALATION: N/A

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER:
(% BY VOLUME) **LOWER:**

FLASH POINT: N/A



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F:

C:

METHOD USED:

AUTOIGNITION TEMPERATURE:

F:

C:

NFPA HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH:

FLAMMABILITY:

REACTIVITY:

PROTECTION:

EXTINGUISHING MEDIA: Flood with plenty of water, water spray, CO₂, foam, or dry chemical

SPECIAL FIRE FIGHTING PROCEDURES:

UNUSUAL FIRE AND EXPLOSION HAZARDS: Carbon monoxide and carbon dioxide may be generated in the event of a fire.

HAZARDOUS DECOMPOSITION PRODUCTS:

SECTION 5 NOTES: PREVENTION – Keep away from sources of heat, strong oxidizers, or naked flames.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Sweep up carefully and shovel into a container for disposal. Remove from the spill location. If released, report in accordance with local and national regulations.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid contact with skin or eyes. Avoid breathing of dust. Handle in well-ventilated work space. Smoking in area should be prohibited. Store in cool, dry, ventilated storage and in closed containers. Keep away from oxidizers, heat, or flames. Store away from ignition sources.

OTHER PRECAUTIONS:

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

VENTILATION :

RESPIRATORY PROTECTION: Local exhaust ventilation system, or an approved particulate filter is recommended if excessive dust is generated.

EYE PROTECTION: Safety glasses or goggles recommended

SKIN PROTECTION: Long-sleeved clothing



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OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

WORK HYGIENIC PRACTICES: Keep an eye wash fountain available. Wash hands at breaks and at end of shift. Launder contaminated clothing before use.

EXPOSURE GUIDELINES: Liberated dust has been measured in processing to be below 2 mg/m³ particulate, which equates to an impregnant content significantly less than current recommended OEL'S.

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Black particulate solid (pellet, granular, or powder)

ODOR: None

PHYSICAL STATE: Solid

pH AS SUPPLIED: 2 – 12

pH (Other):

BOILING POINT: N/A

F:

C:

MELTING POINT: N/A

F:

C:

FREEZING POINT:

F:

C:

VAPOR PRESSURE (mmHg):

@

F:

C:

VAPOR DENSITY (AIR = 1):

@

F:

C:

SPECIFIC GRAVITY (H2O = 1):

@

F:

C:

EVAPORATION RATE:

BASIS (=1):

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

SOLUBILITY IN WATER: May be partially soluble in water or organic solvents

PERCENT SOLIDS BY WEIGHT:

PERCENT VOLATILE:

BY WT/ BY VOL @

F:

C:

VOLATILE ORGANIC COMPOUNDS (VOC):

WITH WATER: LBS/GAL
WITHOUT WATER: LBS/GAL



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MOLECULAR WEIGHT:
VISCOSITY:
@

F:
C:

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABLE

UNSTABLE

STABILITY:

CONDITIONS TO AVOID (STABILITY): Avoid dust generation, naked flames, and ignition sources

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers such as ozone, liquid oxygen, chlorine, and permanganate

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Combustion of this material may result in the generation of carbon dioxide, carbon monoxide, and nitrogen oxides

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION):

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with local and national regulations

RCRA HAZARD CLASS:

SECTION 13: DISPOSAL CONSIDERATIONS (con't)

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION



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PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENT:

WATER TRANSPORTATION

PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS:

AIR TRANSPORTATION

PROPER SHIPPING NAME:
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS:

OTHER AGENCIES: United Nations Transport of Dangerous Goods

PROPER SHIPPING NAME: Activated carbon
HAZARD CLASS: 4.2
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS: Impregnated activated carbon. S14 Keep away from oxidizers and strong acids. S16 Keep away from sources of ignition.

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT):

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES:

313 REPORTABLE INGREDIENTS:

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES: Not classified as dangerous

SECTION 16: SPECIAL PRECAUTIONS

Hygienic Practices in Handling/Storage:

Precautions for Repair/Maintenance of Contaminated Equipment:

Other Precautions:

SECTION 16 NOTES:



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SECTION 17: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER: