

California Carbon Co., Inc.

2825 E. Grant St., Wilmington, CA 90744

1-562-436-1962 / Fax 1-562-437-1217

MATERIAL SAFETY DATA SHEET – ST-300 Series

DATE OF ISSUE: 9-15-2006

SECTION I - GENERAL INFORMATION

MANUFACTURER NAME: CALIFORNIA CARBON CO., INC., 2825 E. GRANT ST.
WILMINGTON, CA 90744 P:1-562-436-1962 F:1-562-437-1217

CHEMICAL NAME: Tris (hydroxymethyl) Aminomethane Impregnated Carbon

CHEMICAL FAMILY: Impregnated carbon (adsorbents)

TRADE NAMES (Label): ST-308, ST-312 CAS NO. 77-86-1

COMMON NAME: Tris Carbon

SECTION II - HAZARDOUS INGREDIENTS

MATERIAL:	TLV Units	Wt, %
Tris	None established	<15%
Coconut Shell Carbon	3.5 mg/m ³	Balance

SECTION III - PHYSICAL DATA

BOILING POINT (DEG F): N/A

SPECIFIC GRAVITY (H₂O=1): 0.49

VAPOR PRESSURE (MM HG): N/A

PERCENT (%) VOLATILE BY VOLUME: N/A

VAPOR DENSITY (AIR = 1): N/A

EVAPORATION RATE: N/A

SOLUBILITY IN WATER:

Tris: Tris is soluble at 20° C per 80 g/100 ml H₂O
Carbon: Insoluble

APPEARANCE AND ODOR: Odorless, black, granular solid, free flowing when dry.

SECTION IV - FIRE HAZARD & EXPLOSIVE DATA

FLASH POINT: N/A

FLAMMABLE LIMITS: Lower Explosive Limit: N/A Upper Explosive Limit: N/A

EXTINGUISHING MEDIA: Water, CO₂, Foam or Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES: Carbon ashes like charcoal briquettes and does not support flame.

UNUSUAL FIRE & EXPLOSION HAZARDS: Heavy carbon dust in air presents dust explosion hazard. Wet activated carbon will remove oxygen from the air.

SECTION V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Avoid exposure to dust levels above 3.5 milligram per cubic meter (mg/m³).

EXPOSURE ROUTES: Ingestion No
Inhalation No
Eye Contact Yes
Skin Contact No

EMERGENCY AND FIRST AID PROCEDURES:

Ingestion See Physician immediately.
Inhalation Move subject to fresh air and contact physician immediately.
Eye Contact Rinse eyes (upper & lower lids) for 15 minutes with fresh water. See physician immediately.
Skin Contact Rinse skin for 15 minutes with fresh water. Wash all contaminated clothing before use.

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SECTION VI - REACTIVITY DATA

STABILITY: Unstable -->

STABLE --> X

CONDITIONS TO AVOID: None

INCOMPATIBILITY (Materials to avoid): Hydrogen Peroxide, Nitric Acid, Materials classified as Oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide due to normal combustion, and oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION: May Occur -->

Will Not Occur --> X

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Collect with broom and shovel and place in a sealed container. Wear a particle mask, goggles and gloves. If media becomes wet, store for waste disposal in plastic-lined containers. Do not enter large vessels without a self-contained breathing apparatus - especially when carbon is wet.

WASTE DISPOSAL METHOD: Dispose according to local, State and Federal requirements in approved land fills.

SECTION VIII - PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH approved respirator

VENTILATION: LOCAL EXHAUST: Yes

SPECIAL EXHAUST: N/A

MECHANICAL: Yes

PROTECTIVE GLOVES: Corrosive Chemical Resistant

EYE PROTECTION: Safety goggles or full face shield

SECTION IX- TRANSPORTATION DATA

PROPER SHIPPING (Article) NAME: Steam Activated Carbon, Non-Regulated or Carbon, Activated, Non-Regulated

DOT CLASSIFICATION: NMFC 40560 | DOT MARKING: N/A | DOT PLACARD: N/A

EMERGENCY ACCIDENT PRECAUTIONS AND PROCEDURES:

Contact: CALIFORNIA CARBON CO., INC.

PHONE 562-436-1962

OCEAN BLUE ENVIRONMENTAL SERVICES 1-800-990-9930

PRECAUTIONS TO BE TAKEN IN TRANSPORTATION: N/A

CAUTION!!!!

Wet activated carbon poses a severe hazard to workers inside enclosed or confined spaces because it removes oxygen from air. Before entering such area, accepted sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability. Always follow all local, State and Federal regulations.

The information contained herein is based on data considered accurate in light of current formulation. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

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