



MATERIAL SAFETY DATA SHEET

NUCLEAR GRADE ACTIVATED CARBON TYPE: CNG-816

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Chemical Name: Carbon, activated

Manufacturer Information:

NCS Corporation
1385 West Goodale Blvd.
Columbus, OH 43212
Phone 614-340-3700
Fax 614-340-3707

FOR EMERGENCIES, CONTACT CHEMTREC 1-800-424-9300

2. COMPOSITION/INGREDIENT DESCRIPTION

| <u>Chemical Name</u> | <u>CAS #</u> | <u>Concentration (%)</u> |
|---------------------------------|--------------|--------------------------|
| Activated Carbon, coconut shell | 64365-11-3 | >96% |
| Triethylenediamine | 280-57-9 | <4% |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: CAUTION: MATERIAL, WHEN WET, CAN REMOVE OXYGEN FROM THE AIR CAUSING A SEVERE HAZARD. MATERIAL IS DIFFICULT TO IGNITE AND TENDS TO SMOLDER WITHOUT PRODUCING SMOKE OR FLAME.

Physical Appearance and Odor: Black amorphous solid, no odor to slightly ammoniacal

POTENTIAL HEALTH EFFECTS:

Acute Eye: May cause irritation in dusty conditions

Acute Skin: No adverse effect expected however, may cause dermatitis in sensitive individuals

Acute Inhalation: May cause coughing, irritation in dusty conditions

Acute Ingestion: No adverse effects expected

Chronic Effects: No adverse effects expected

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for 15 minutes intermittently lifting the lower and upper eyelids. If irritation persists, seek immediate medical attention.



Skin Exposure: Flush skin with running water for 15 minutes. Launder clothes before reuse. Seek medical attention if irritation persists.

Inhalation: Move person to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult administer oxygen. If symptoms persist or develop, obtain immediate medical attention.

Ingestion: DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. If conscious and alert, rinse mouth and drink 2-4 cupfuls of water. If vomiting occurs, keep victim's head lower than hips to avoid aspiration. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

Flash point: Not applicable

Flammability limits (vol./vol.): Lower: Not applicable Upper: Not applicable

Extinguishing Media: Water spray, fog, dry chemical, foam, CO₂, alcohol resistant foam. Use any means suitable for extinguishing surrounding fire.

Special Fire Fighting Procedures: Firefighters should wear NIOSH -approved self-contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards: Airborne dust is a weak explosion hazard. Combustible solid. Material burns slowly without producing smoke or flame

Hazardous Decomposition Materials Under Fire Conditions: Material may produce toxic fumes of carbon monoxide and carbon dioxide. Material may generate ammonia gas.

6. ACCIDENTAL RELEASE MEASURES

Evacuation Procedures and Safety: Use the appropriate personal protective equipment specified in section 8. When working with dust, wear the appropriate respiratory protection.

Cleanup and Disposal of Spill: Do not allow the material to enter sewerage system or open waters. Extinguish or remove all ignition sources. Collect spilled material in a labeled, sealable metal or polyethylene containers. Wash away remainder with plenty of water and collect in containers.

Environmental and Regulatory Reporting: Do not flush to drain. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

7. HANDLING AND STORAGE

Maximum Storage Temperatures: Ambient temperature

Handling: CAUTION – material may remove oxygen from the air causing a severe hazard. Sampling needs to be conducted before entering any confined space that may contain or once contained material. Avoid contact with skin and eyes. Persons with a history of respiratory sensitization should not work with, or near, this material. Wear suitable protective clothing, gloves and eye/face protection. Use good housekeeping practices.

Storage: Keep container tightly closed in a dry, cool, well ventilated place. Keep away from incompatible materials, see section 10. Do not re-use container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

| Chemical | Activated Carbon, Coconut Shell | Triethylenediamine |
|-----------------------------|---|--------------------|
| ACGIH TLV | *3 mg/m ³ (respirable) 10 mg/m ³ (inhalable) | Not established |
| ACGIH STEL | Not established | Not established |
| OSHA ceiling concentration | Not established | Not established |
| ACGIH ceiling concentration | Not established | Not established |
| NIOSH REL | Not established | Not established |



Acute Skin Irritation: Material is not known to be absorbed through the skin. However, irritation may occur in individuals with sensitivity to the material

Acute Dermal Toxicity: No information available

Acute Respiratory Irritation: May cause irritation to the respiratory tract

Acute Inhalation Toxicity: For carbon - LD50 (rat): 64.4 mg/l; For triethylenediamine – LC50 (rat): >20 mg/L

Acute Oral Toxicity: For carbon - LD50 (rat): >10g/kg; For triethylenediamine – LD50 (rabbit): >2,000 mg/kg

Chronic Toxicity: Effects of long-term, low-level exposure has not been determined

12. ECOLOGICAL INFORMATION

No information is available on the carbon component of this product

Triethylenediamine has an aquatic toxicity of LC0 (96hr) carp: 100 mg/L

13. DISPOSAL CONSIDERATIONS

Waste disposal Method: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Recycling or reclamation of the material is the preferred method of disposal.

Container Handling and Disposal: Disposal must be in accordance with applicable federal, state and local governmental regulations. Refer to US EPA guidelines for the classification or spent/waste materials.

EPA RCRA Hazardous Waste Codes: Not applicable

14. TRANSPORTATION INFORMATION

US Department of Transportation: Not regulated

Note: This material does not meet the definition of hazard class 4 (flammable solid, combustible solid or dangerous when wet). Therefore, this material is not hazardous and not regulated.

15. REGULATORY INFORMATION

Inventory Status:

US (TSCA): Material is listed on the TSCA Inventory List

Canada (DSL): Listed

Europe (EINECS/ELINCS): Listed

California Proposition 65: Material is not listed

16. OTHER INFORMATION

National Fire Protection Association (“NFPA”) Hazard Ratings:

Health: 0

Flammability: 1

Instability: 0



National Paint and Coatings Hazardous Materials Identification System (“HMIS”) Hazard Ratings:

Health: 0

Flammability: 1

Reactivity: 0

Reason for Revision(s): Update information

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END OF MATERIAL SAFETY DATA SHEET