Material Data Sheet

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Material Data Sheet
No. 25171885
Revision: 041121-A
Part Number: 2517-1000
Description: Hydrazine Vapor Sorbent DG
Product Name: Hydrazine Sorbent DG 2517

SECTION 1 – MATERIAL IDENTIFICATION

Ingredient	CAS #	% by Weight
Activated Carbon:	7440-44-0	35 -40
Hydrazine Sorbent blend	None	5-10 Trade Secret*

* The chemical composition the hydrazine Sorbent blend is considered a trade secret. As allowed in U.S. OSHA regulation 1910.1200 (i) (1), Chemteq, Inc. is withholding the specific chemical identity, including other specific identification information (e.g., CAS #).

SECTION 2 – HAZARDS IDENTIFICATION

Classification of substance or mixture: GHS-US classification

Eye Irritant 2B H320, Ox. Sol. 2 H272, STOT SE 3 H335

Label Elements
Hazard pictograms GHS-US


GHSO7


GHSO3

Signal word (GHS-US): Danger
Hazard statements (GHS-US)
H320 – Causes eye irritation
H272 – Intensify fire; oxidizer
H335 - May cause respiratory irritation
Precautionary statements (GHS- US)
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P220 - Keep/Store away from clothing/... /combustible materials
P221 - Take any precaution to avoid mixing with combustibles
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P271 - Use only outdoors or in a well-ventilated area
P280 -Wear protective gloves/protective clothing/eye protection/face protection
P304+ 340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
P312 - Call a POISON CENTER/doctor
P403+P233 Store in a well ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents according to Federal and local laws

Fire & Explosion Hazards: Hazardous products of combustion including carbon oxides can occur when burned. Irritating and/or toxic gases due to decomposition of the product may be generated during a fire. Fight fire from a safe distance from a protected location. Contact with strong oxidizers such as ozone or liquid oxygen may cause rapid combustion.
Primary Route(s) of Exposure: Eye contact, skin contact, ingestion, or inhalation, are all possible routes of entry.
Inhalation- Acute Effects: Inhalation of dust may cause sneezing, coughing, discomfort, and labored breathing.
Skin Contact-Acute Effects: Dust may cause skin irritation.
Eye Contact- Acute Effects: Dust that contacts eyes may cause redness, pain, blurred vision or mechanical injury.
Ingestion-Acute Effects: Ingestion of powder may be irritating to the gastrointestinal tract.

SECTION 3 – FIRST AID MEASURES

NECESSARY FIRST AID INSTRUCTIONS

1. Eye Contact: Wash eyes immediately with plenty of water for at least 15 minutes and see a doctor.
2. Skin Contact: Wash affected area immediately with soap and water.
3. Inhalation: Not applicable
4. Ingestion: May be harmful if swallowed. Rinse mouse immediately with water and see a Doctor.

SECTION 4 – FIRE FIGHTING MEASURES

Flash Point/Method: Nonflammable
Upper/Lower Explosion Limits: Not applicable
Extinguishing Media: Use extinguishing media appropriate for surrounding fire.
Fire Fighting Procedures: In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full-face piece, operated in the positive pressure mode.
Fire & Explosion Hazards: Hazardous products of combustion including carbon oxides can occur when burned. Irritating and/or toxic gases due to decomposition of the product may be generated during a fire. Fight fire from a safe distance from a protected location. Contact with strong oxidizers such as ozone or liquid oxygen may cause rapid combustion.
Hazardous Products of Decomposition and /or Combustion: Carbon oxides

SECTION 5 – ACCIDENTAL RELEASE MEASURES

Clean up spills in a manner, that does not disperse dust into the air. Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure, and removal of material from eyes, skin, and clothing. Spent material should be disposed of in accordance with applicable laws. Do not reuse empty bags. DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. All disposal methods must comply with all Federal, State, Local and Provincial laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

SECTION 6 – HANDLING AND STORAGE

Handling: Avoid dispersion into air. Keep containers dry and closed. Follow good handling and housekeeping practices to minimize spills, generation of airborne dusts, and accumulation of dusts on exposed surfaces. Use with adequate exhaust ventilation to draw dust away from workers' breathing zones. Prevent or minimize exposures to dusts by using appropriate respirators, gloves, and eye protection. Wash exposed skin areas thoroughly with soap and water. Use caution when pouring, using pneumatic transport, swirling, etc. as this material can become electrostatically charged.
Storage: Avoid breaking bags or spilling media to avoid possibly creating residual dust. Store in ambient atmospheric conditions. Product should be stored in a closed dry container. Maintain good housekeeping procedures. Store away from strong oxidizers such as; ozone, liquid oxygen, chlorine, permanganate, etc.
General Comments: Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

SECTION 7 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Use NIOSH/MSHA approved respiratory protection equipment appropriate to the material and/or its concentration where airborne exposure is likely.
Skin Protection: Wear appropriate dust resistant clothing and gloves.

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Eye Protection: Recommended are Safety glasses with side shields for any type of handling. Where eye contact or dusty conditions may be likely, dust tight goggles are recommended.
Ventilation Protection: Provide ventilation if necessary, to minimize exposure. Dilute ventilation acceptable, but local mechanical exhaust ventilation preferred, if practical, at sources of air contamination such as open process equipment. The following publication offers ventilation guidelines and techniques: "INDUSTRIAL VENTILATION, A MANUAL OF RECOMMENDED PRACTICE" available from the ACGIH.
Exposure Limits: Carbon: OSHA PEL-TWA: 15 mg/m^3 (total), 5 mg/m^3 (resp) OSHA PEL-STEL: 10 mg/m^3

SECTION 8 – PHYSICAL/CHEMICAL PROPERTIES

Vapor Pressure: Zero	Vapor Density (Air=1): not applicable
Boiling Point: not applicable	Solubility in Water: <15%
Volatile Percentage: 0 %	pH: not determined
Flash Point/method: Nonflammable	Auto Ignition Temperature: >150°C
Upper/Lower Explosion Limits: not applicable	Other: none

SECTION 9 – STABILITIY AND REACTIVITY

Stability: This product considered stable under the specified conditions of storage, shipment and use.
Incompatibilities: Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion. Avoid contact with strong acids.
Polymerization: Hazardous polymerization will not occur.
Decomposition: Hazardous decomposition will produce carbon oxides.

SECTION 10 – TOXICOLOGICAL INFIRMATION

INHALATION – Acute: Inhalation of dust may cause sneezing, coughing, discomfort, and laboured breathing. Inhalation of carbon dust is mildly irritating to the lungs and can immediately give rise to an increased mucociliary transport and airway resistance mediated by the vagus. The inhalation LC50 (rat) of carbon is > 64.4 mg/l. INHALATION – Chronic: There are no known chronic inhalation effects.
SKIN CONTACT – Acute: Dust may cause skin irritation. The primary skin irritation index (rabbit) of carbon is 0.
SKIN CONTACT – Chronic: Repeated or prolonged contact with skin may cause dermatitis.
EYE CONTACT – Acute: Dust that contacts eyes may cause redness, pain, blurred vision, or mechanical injury. Eye contact can cause conjunctivitis, epithelial hyperplasia of the cornea, as well as eczematous inflammation of the eyelids.
INGESTION – Acute: Ingestion of powder may be irritating to the gastrointestinal tract with possible esophageal and gastric injuries. The probable oral lethal dose (human) of carbon is greater than 15 g/kg: more than one quart (2.2 lbs.) for a 70 kg (150 lb) person.
INGESTION – Chronic: There are no known chronic ingestion effects.
CARCINOGENICITY/MUTAGENICITY: There are no known carcinogenic/mutagenic effects.
REPRODUCTIVE EFFECTS: There are no known reproductive effects.
NEUROTOXICITY: There are no known neurotoxic effects.
OTHER EFFECTS: No other toxic effects are known.
TARGET ORGANS: Target organs include the skin, eyes, respiratory system and digestive tract

SECTION 11 – ECOLOGICAL INFIRMATION

May be hazardous to environment; special attention should be given to water organisms

SECTION 12 – DISPOSAL CONSIDERATIONS

Clean spills in a manner that does not disperse dust into the air, preferably a wet-down procedure or vacuum. If material is not contaminated, spilled media can be re-bagged. Material that cannot be used or chemically reprocessed and empty containers should be disposed of in accordance with all applicable regulations. Product containers should be thoroughly emptied before disposal. Generators of waste material are required to evaluate all waste for compliance with RCRA and any local disposal procedures and regulations. Warning: Wet activated carbon depletes oxygen from the air and therefore dangerously low levels of oxygen may be encountered. Whenever workers enter a vessel containing activated carbon, the vessel's oxygen content should be determined and work procedures for potentially low oxygen should be followed

SECTION 13 – TRANSPORT INFORMATION

DOT Shipping Description: see shipping papers

SECTION 14 – REGULATORY INFORMATION

CERCLA SECTION 103 (40CFR302.4): No	RQ: None
SARA SECTION 302 (40CFR355.30): No	SARA SECTION 304 (40CFR355.40): No
SARA SECTION 313 (40CFR372.65): No	SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21): ACUTE: Yes, CHRONIC: No, FIRE: No, REACTIVE: No, SUDDEN RELEASE: No
OSHA PROCESS SAFETY (29CFR19 10.119): No	
CALIFORNIA PROPOSITION 65: No	

SECTION 15 – OTHER INFORMATION

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