

**Envirotrol Inc.®**

P.O. Box 61
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Sewickley, PA 15143
Phone: 412.741.2030 Fax: 412.741.2670

Emergency Phone Number:

724.827.8181

MSDS Date: 03/25/2005

Material Safety Data Sheet

Section 1 – Product Identification

Chemical Name: Carbon Trade Name: Sentry™ 410, Sentry™ 46, Sentry™ 46P
Potassium Iodide (Granular, Pellets and Powdered Activated Carbon)

Formula: C Common Name: Carbon
KI Potassium Iodide

CAS Number: 7440-44-0 Chemical Family: Element, Group IV-A
7681-11-0 Metal Halogen Salts

Section 2 – Ingredients (Typical Values)

Carbon	-----	84-97%
Potassium Iodide	-----	2-3%
Inert Ingredients	-----	0-13%

Section 3 – Physical And Chemical Data

● Boiling Point:	<u>8721° F, 4827° C (Approx.)</u>	● Vapor Pressure:	<u>N/A</u>
● Vapor Density:	<u>N/A</u>	● Solubility in Water:	<u>Insoluble</u>
● Specific Gravity:	<u>0.2 – 0.75</u>	● Percent, Volatile by Volume:	<u>N/A</u>
● Appearance:	<u>Black, Odorless, Powdered, Pelletized</u>	● Evaporation Rate:	<u>N/A</u>

Section 4 - Fire And Explosion Hazard Data

● Flash Point:	N/A
● Ignition Point:	500-800° F
● Extinguishing Media:	Dry Chemical, Water Fog, Foam
● Special Fire Fighting Procedures:	Wear positive pressure self-contained breathing apparatus if fire occurs in enclosed space. Oxygen starved fires may result in the release of carbon monoxide.
● Unusual Fires And Explosion Hazards:	Avoid producing suspensions of dust during handling, and avoid exposure of suspensions to sources of ignition. Suspensions of -40 mesh powdered activated carbon may explode if exposed to strong sources of ignition

Section 5 - Health Hazard Data

● Eye:	Carbon particles may cause physical irritation if not removed.
● Skin Contact:	Constant prolonged exposure may cause dryness or chapping of exposed area.
● Skin Adsorption:	Product may cause irritation to the skin, particularly if moist.



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Section 5 - Health Hazard Data (continued)

- **Inhalation:** No toxic affect caused by exposure to nuisance dust. As with any dust, excessive exposure should be avoided. OSHA "Nuisance Dust" limitations should be observed. Inhalation of large quantities may cause severe distress, or be fatal. Avoid inhaling the material, and use approved personnel protective equipment.
- **Eyes:** Irrigate with water immediately. Repeat as needed to flush particle from eye. If irritation persists, consult medical personnel.
- **Skin:** Wash with soap and water to avoid skin drying or chapping.
- **Ingestion:** Do not ingest the material. Ingestion of large quantities of the material could cause severe discomfort, or be fatal, depending upon the quantity ingested.
- **Systemic Effects:** None, provided above precautionary measures and protective equipment used

Section 6 - Reactivity Data Compatibility Data

- **Stability:** Avoid contact with strong oxidizing chemicals, such as ozone, perchloric acid, permanganate, sodium chlorite, etc, or to strong bases. Exposure to hydrocarbons and vegetable oils may cause slow oxidation until ignition point is reached--contact should be avoided.
- **Incompatibility:** Strong oxidizing materials, and strong bases.
- **Hazardous Decomposition Products:** Oxygen starved combustion may yield carbon monoxide.
- **Hazardous Polymerization:** Will not occur.

Section 7 - Storage Handling And Use

- **Action to take for Spills:** Shovel and sweep material into appropriate container. Use dilute alkali solutions for any washing operations, and adsorb excess liquids into soda ash.
- **Disposal Method:** Landfill or incineration, in accordance with applicable regulations.

Section 8 - Personnel Protection

- **Ventilation:** Local exhaust recommended minimizing dust exposure.
- **Respiratory Protection:** Approved "nuisance dust" dust masks should be worn in dust exposure areas.
- **Protective Clothing:** Protective gloves should be worn.
- **Eye Protection:** Safety glasses with side shields should be worn and eye wash capabilities should be available.

Section 9 - Special Precautions And Additional Information

Precautions to be taken in handling and storage: keep dry; wet carbon will adsorb oxygen and may reduce oxygen levels in confined spaces to dangerous levels, and can cause skin exposure problems. Adequate ventilation and precautions should be employed whenever closed tanks, receptacles or other enclosed spaces containing carbon are accessed. Suspensions of dust should be avoided and exposure of suspensions of dust to sources of ignition should be avoided.