

Material Safety Data Sheet

Trap & Treat[®] BOS 100[®]



Section I

IDENTITY (As Used on Label and List) Carbon (Chemical formula: C) 90 to 95% Metallic Iron (Chemical formula: Fe) 5 to 10%	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
Manufacturer's Name Remediation Products Inc.	Emergency Telephone Number 303.487.1000
Address (Number, Street, City, State, and ZIP Code) 6390 Joyce Drive, Suite 150 W, Golden, CO 80403	Telephone Number for Information 303-487-1000
Prepared by B. Elliott	Date Prepared 11/8/2012
Proper Shipping Name: Self-heating Solid, Inorganic N.O.S. Class 4.2, UN No. 3190, Packing Group II	Signature of Preparer (optional)

Section II - Hazard Ingredients/Identity Information

Non-hazardous components are listed at 3 percent (%) or greater. This is not intended to be a complete compositional disclosure.

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	%(optional)
Carbon	5mg/M ³ (respirable)	10mg/M ³ (Total)	N/A	90-95
Metallic Iron	"	"	N/A	5-10
N/A = Not Applicable PELs and TLVs are 8-hour TWAs unless otherwise noted.				

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	0.6 g/cc apparent density
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water: Negligible			
Appearance and Odor: Black granules. No odor.			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) DOT Class 4.2 Self-heating Solid	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media Flood with plenty of water			
Special Fire Fighting Procedures The material itself is not spontaneously combustible but may cause other flammable materials to ignite.			

Unusual Fire and Explosion Hazards
 Contact with strong oxidizer, such as ozone, liquid oxygen, chlorine, permanganate, etc., may result in fire.

NFPA Rating:
 Health=0; Reactivity=1; Flammability=1

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	Contact with Air/Oxygen
Incompatibility (<i>Materials to Avoid</i>)			
Strong oxidizers, such as ozone, liquid oxygen, oxygen and air, chlorine, permanganate, etc., and acids.			
Hazardous Decomposition	May Occur	X	Conditions to Avoid - Strong oxidizers
	Will Not Occur		

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards (<i>Acute and Chronic</i>)			
<p>When exposed to the air, rapid heating may occur that can cause fire or severe burns. Quench with water or Nitrogen gas to cool before handling. Forced air creates a faster reaction than incidental contact.</p> <p>The effects of long-term, low-level exposures to carbon 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.</p> <p>Persons subjected to excessive dust will be forced to leave area because of nuisance; i.e., coughing, sneezing and nasal irritation.</p> <p>CAUTION!!! This material removes oxygen from air causing a severe hazard to workers inside 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, state, and federal regulations.</p>			
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
N/A	N/A	N/A	Yes
Signs and Symptoms of Exposure			
<p>Effects and Hazards of Eye Contact: The physical nature of this product may produce eye irritation, if exposed to dusting conditions without protective eye equipment.</p> <p>Effects and Hazards of Skin Contact: The product is not a primary skin irritant. The primary skin irritation (Rabbit) is 0.</p> <p>Effects and Hazards of Inhalation Breathing): This product is practically non-toxic through inhalation. The acute inhalation LD₅₀ (Rat) is >6.4 mg/l (nominal concentration). Could cause irritation to respiratory passages, if exposed to dusting conditions without protective respiratory equipment.</p> <p>Effects and Hazards of Ingestion (Swallowing): Material is non-toxic through ingestion. The acute oral LD₅₀ (Rat) is >10g/kg.</p>			
Medical Conditions Generally Aggravated by Exposure			
N/A			

Emergency and First Aid Procedures

Eyes: Flush with plenty of water for at least 15 minutes. Call physician if irritation continues.

Skin: Wash with soap and water.

Inhalation: Move to fresh air.

Ingestion: N/A

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Wet spilled material to neutralize potential for fire.

Sweep or vacuum material from spillages into a waste container for disposal or repackaging. Avoid dusting conditions.

Waste Disposal Method

Dispose of unused product in waste container. Dispose of in accordance with local, state, and federal or national regulations.

Precautions to Be Taken in Handling and Storing

Minimize contact with air. When opening a drum of material, fill drum with water before handling.

CAUTION!!! This product removes oxygen from air causing a 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, state, and federal or national regulations.

Be sure proper ventilation and respiratory and eye protection are used under dusting conditions.

Other Precautions

Wash thoroughly after handling. Exercise caution in the storage and handling of all chemical substances.

Section VIII - Control Measures

Respiratory Protection (*Specify Type*)

Carbon-A NIOSH-approved particulate filter respirator is recommended, if excessive dust is generated.

Ventilation	Local Exhaust Recommended when used indoors or in confined spaces	Special Not Required
	Mechanical (<i>General</i>) Recommended when used indoors or in confined spaces	Other Not required

Protective Gloves

Recommended

Eye Protection

Safety glasses or goggles recommended

Other Protective Clothing or Equipment

Not required

Work/Hygienic Practices

Use of Tyvek® or Nomex® suits is suggested to protect skin from becoming excessively dirty and clothing from being ruined by contact with product.