



Safety Data Sheet

According to Regulation (EC) No. 1907/2006
OSHA Regulation 29 CFR 1910.1200
Canadian Regulation SOR/88-66

Revision Date: 2010-12-01
Reason for Revision: Regulation (EC) No. 1272/2008 Compliance

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: Activated Carbon

Additional Product Codes: HI 93703-55

Application: Preparation of Samples for Use With HI83215

Company Information (USA):

Hanna Instruments, Inc.
584 Park East Dr, Woonsocket, Rhode Island, USA 02895

Technical Service Contact Information:

1-800-426-6287 (8:30AM - 5:00PM ET)
+1-401-766-4260 (8:30AM - 5:00PM ET)

USA Emergency Contact Information:

1-800-424-9300 (Chemtrec 24Hr. Emergency)

International Emergency Contact Information:

+1-703-527-3887 (Chemtrec 24Hr. Emergency)

E-mail Address:

tech@hannainst.com

SECTION 2: HAZARD IDENTIFICATION

Non-hazardous product as specified in Directives 67/548/EEC and 1999/45/EC.

Non-hazardous product as specified in OSHA Regulation 29 CFR 1910.1200.

Non-hazardous product as specified in Canadian Regulation SOR/88-66.

Non-hazardous product as specified in Regulation (EC) 1272/2008.

According to Directives 67/548/EEC and 1999/45/EC:

S-phrases: 26-36: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Black Powder

SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air. Give artificial respiration if victim is not breathing. Give oxygen if breathing is difficult.

After Skin Contact: Immediately wash affected area with soap and copious amounts of water.

After Eye Contact: Immediately flush eyes with copious amounts of water for at least 15 minutes.

After Swallowing: Wash out mouth with water provided person is conscious. Call a physician.

General Information: Not available

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

For small (incipient) fires, "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special Risks:

Flammable Hazards: Yes

Special Protective Equipment:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Flammable solid. Emits toxic fumes under fire conditions.

Additional Information:

This material, like most materials in powder form, is capable of creating a dust explosion.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Environmental Precautions:

NA

Additional Notes:

Avoid raising dust. Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete. Procedure to be followed in case of leak or spill: Evacuate area. Shut off all sources of ignition.

SECTION 7: HANDLING AND STORAGE

Handling:

User Exposure: Avoid breathing dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Storage:

Keep container closed. Keep away from heat, sparks and open flame.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering:

Safety shower and eye wash. Use nonsparking tools. Mechanical exhaust required.

Personal Protective Equipment:

As appropriate to quantity handled.

Respiratory Protection:

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

Protective Gloves:

Compatible chemical-resistant gloves

Eye Protection:

Chemical safety goggles

Industrial Hygiene:

Wash thoroughly after handling. Wash contaminated clothing before reuse.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: Black powder

Odor: NA

Density at 20 °C: 1.8 - 2.1 g/cm³

Melting Point: NA

Boiling Point: NA

Solubility: Soluble

pH at 20 °C: NA

Explosion Limit: NA

Flash Point: NA

Thermal Decomp.: NA

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Mixing solid sodium borohydride with charcoal (activated carbon) in air promotes the oxidation of the sodium borohydride, producing a self- heating reaction that may result in the ignition of the charcoal and in production of hydrogen through thermal decomposition of sodium borohydride. The spontaneous combustion in air occurs at 90-100°C. The presence of moisture in the air causes the ignition to occur more readily.

Hazardous Polymerization:

Will not occur.

Further Information:

Stable

Hazardous Decomposition Products:

Carbon monoxide, Carbon dioxide.

Substances to be Avoided:

Strong oxidizing agents, Ozone, Chlorine, Permanganates, Strong acids

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SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

Intravenous
Mouse
440 MG/KG
LD50

Potential Health Effects:

Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Skin Contact: Causes skin irritation. Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: Causes eye irritation.
Ingestion: May be harmful if swallowed.
Further Data: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
CHRONIC EXPOSURE - REPRODUCTIVE HAZARD
Rat (167 mg/kg, Subcutaneous, 8D PREG)
Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Component Toxicity

Acute Toxicity:

Not Available

Chronic Toxicity:

Not Available

Additional Data:

Not Available

SECTION 12: ECOLOGICAL INFORMATION

Quantitative data on the ecological effect of this product is not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

SECTION 14: TRANSPORTATION INFORMATION

Land:

DOT
Proper Shipping Name: Carbon, activated
UN#: 1362
Class: 4.2
Packing Group: Packing Group III
Hazard Label: Spontaneously combustible
PIH: Not PIH

Sea:

IATA
Proper Shipping Name: Carbon, activated
IATA UN Number: 1362
Hazard Class: 4.2
Packing Group: III

Air:

IATA
Proper Shipping Name: Carbon, activated
IATA UN Number: 1362
Hazard Class: 4.2
Packing Group: III

Transport data applies to the COMPLETE KIT!

SECTION 15: REGULATORY INFORMATION

Complies with European Regulations (EC) No. 1907/2006 and No. 1272/2008.
Complies with European Council Directives 67/548/EEC and 1999/45/EC.
Complies with OSHA Regulation 29 CFR 1910.1200.
Complies with Canadian Regulation SOR/88-66

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SECTION 16: OTHER INFORMATION***Text of phrases under Section 3***

NA

Revision Information**Revision Date:** 2010-12-01**Supersedes edition of:** 2009-06-10**Reason for revision:** Regulation (EC) No. 1272/2008
Compliance***Legend***

NA: Not Applicable

ND: Not Determined

**THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR
KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE
APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF
THE PROPERTIES OF THE PRODUCT.**