



MATERIAL SAFETY DATA SHEET

DATE PREPARED: February, 2006

Section I - PRODUCT IDENTIFICATION AND EMERGENCY INFORMATION

Material Name: RapidFire Cutting Rod Ignition Cartridge

Manufacturer: Broco, Inc.
10868 Bell Court
Rancho Cucamonga, CA 91730-4819

Telephone Number: (909) 483-3222
Facsimile: (909) 483-3233

Emergency Telephone Number: Chemtrec - (800) 424-9300

Section II - HAZARDOUS INGREDIENTS/IDENTITY/INFORMATION

This section covers the materials from which this product is manufactured.

The term "hazardous" in "Hazardous Materials" should be interpreted as a term required and defined in OSHA Hazard Communication Standard (29 CFR Part 1910.1200).

RapidFire cartridges consist of BD Activated Iron Alloy Foil, contained within a glass vial, which in turn is fixed within a steel cylinder. A removable safety clip and two plastic bushings protect the material from unintentional exposure/activation.

INGREDIENT

ACTIVE MATERIAL: SPONGE METAL FOIL
CONTAINS: FE, AL, SN, B CU
PROPER SHIPPING NAME: PYROPHORIC METAL N.O.S. (ACTIVATED IRON)
HAZARD CLASS: 4.2
ID#: UN1383
DOT LABEL: "SPONTANEOUSLY COMBUSTIBLE"

Section III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	N/A	Specific Gravity (H2O= 1)	Approx. 4
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	Insoluble in water		
Appearance and Odor	Grey to black, dull finish, no odor		

Section IV – FIRE AND EXPLOSION HAZARD DATA

BD Activated Iron is self-heating in air. When exposed to air, it may attain heat quickly and provide a combustion source for exposed combustible materials. It is highly reactive with organic compounds when heated or exposed to oxidizing agents. Some hydrogen may be evolved during shipping or storage. Open flames and smoking are prohibited.

Extinguishing Media - Water, CO₂, foam to deactivate and quench.

Section V - REACTIVITY DATA

Spontaneously Combustible in Presence of Oxygen.

Stability - Unstable

Conditions to Avoid - Air-sensitive material. Some hydrogen may be evolved during storage.

Materials to Avoid - Reacts with strong acids to liberate hydrogen.
Reacts vigorously with strong oxidizing agents.

Hazardous Decomposition Byproducts - Hydrogen may evolve.

Hazardous Polymerization - Will not occur.

Section VI - HEALTH HAZARD DATA

Route of Entry:

Inhalation	YES	Skin	YES	
Ingestion	YES	Health hazards (Acute and Chronic)		N/A
Carcinogenicity -	N/A	IAPC	N/A	
OSHA Regulated?	N/A			

Signs and symptoms of exposure - Skin - May cause skin irritation.

Medical conditions generally aggravated by exposure - N/A

Emergency and first aid procedures - Wash skin with soap and water.

Section VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled - Should be flushed with water.

Waste Disposal Method - Expose to air. Material will burn or otherwise oxidize and become deactivated. Residue consists of iron and iron oxides which are not hazardous and may be discarded. Disposal must be in accordance with federal, state and local regulations.

Precautions to Be Taken in Handling and Storing - Keep away from heat, sparks, and open flames.

Keep away from flammables and/or combustibles.

Shipping/Storage - Use Level II packaging for shipping, transportation and storage. Approved ammunition boxes or steel pails are recommended.

Section VIII - CONTROL MEASURES

Respiratory Protection -	N/A
Ventilation -	N/A
Mechanical -	Metal or heat resistant container for disposal.
Protective Gloves -	Heat resistant
Eye Protection -	Safety goggles

Broco, Inc. believes this data to be accurate and to reflect qualified expert opinion regarding current research. However, Broco, Inc. cannot make any express or implied warranty as to this information.