

# RAPIDFIRE™ CUTTING ROD IGNITERS

## SMALL QUANTITY SHIPPING - 5 BOXES OR LESS PER STEEL PAIL OVERPACK

## Section 1: Identification

Product Name:	RAPIDFIRE <sup>™</sup> Cutting Rod Ignition Cartridge	*Sm	all quantity shipping – 5 boxes or
MSDS Issue Date:	September 1, 2018	less	per steel pail overpack*
Product Code:	PC/RFC-10		
CAS Number(s):	See section 3		
Product Usage:	Non-Electric Ignition of Exothermic Cutting Torch		
Manufacturer:	Broco, Inc.	Phone:	909-483-3222
	400 S. Rockefeller Ave.	Fax:	909-483-3233
	Ontario, CA 91761 USA	E-Mail:	sales@brocoinc.com
		Web Site:	www.broco-rankin.com
Emergency Response & Trai	ning Solutions		
1-800-924-6804 1-440-34	49-2700		
CIN #: 3730			

## Section 2: Hazard(s) Identification

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 cutting rod igniters consist of a small quantity of oxygen reactive material 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.

Classification of the Substance or Mixture:

PROPER SHIP	PING NAME:	DANGEROUS GOODS IN APPARATUS (ACTIVATED IRON)
HAZARD CLAS	SS:	9
ID#:		UN3363
DOT LABEL:		NONE
PACKAGE MA	RKS:	DANGEROUS GOODS IN APPARATUS, UN3363

**Restriction:** 

Cannot be shipped by air; FORBIDDEN

Hazard Statements:	Oxygen reactive; catches fire spontaneously if exposed to air May cause skin reaction through contact May cause eye irritation Causes damage to organs through prolonged or repeated exposure: Inhalation Suspected of causing cancer
Precautionary Statements:	Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection If on skin, wash with plenty of soap and water

#### In case of contact with eyes, rinse immediately with plenty of water and seek medical attention In case of insufficient ventilation, wear suitable respiratory equipment

## Section 3: Composition / Information on Ingredients

ACTIVE MATERIAL: SPONGE METAL FOIL			
SPONGE METAL FOIL CONTAINS ONE OR MORE OF THE FOLLOWING:	CAS	EC	WEIGHT %
MILD STEEL STRIP	N/A	N/A	>70%
NICKEL POWDER, NON-STABILIZED	7440-02-0	231-111-4	<20%
IRON POWDER, NON-STABILIZED	7439-89-6	231-096-4	<15
ALUMINUM, COMPOUNDED	12003-78-0	234-439-6	<10
WARNING: This product may contain or may produce a chemical known to	o the State of Califor	nia to cause cancer.	. (California Health & Safety Code
25240 F at sec )			

#### **Section 4: First Aid Measures**

General information: Signs and symptoms: Medical conditions generally aggravated by exposure:	Immediately remove any clothing contaminated by this product. Skin – May cause skin irritation. N/A	
we deal conditions generally aggravated by exposure.		
Emergency and first aid procedures:		
After inhalation: Supply fresh air and be sure unconsciousness, place patient stably in the rec	to call a doctor. Remove patient from exposure, keep warm and at rest. In case of overy position for transportation.	
After skin contact: Remove contaminated clothing immediately. Immediately drench affected skin with plenty of water, then wash with soap and water and rinse thoroughly. If skin irritation continues, consult a doctor.		
After eye contact: Immediately flush eyes with Obtain medical attention.	n plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally.	
After swallowing: Do not induce vomiting. Imm then give patient 200-300 ml of water to drink.	ediately call for medical help. Provided patient is conscious, rinse out mouth with water	
Contact may cause allergic reactions.		
Most important symptoms and effects, both acute and de	layed:	
May cause eye irritation		
Skin contact may cause irritation		
May cause irritation to the respiratory system		

#### **Section 5: Firefighting measures**

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: CO2, foam to deactivate and quench, extinguishing powder, dry sand.

Special Hazards Arising from the Substance or Mixture: May fire off toxic fumes in a fire, iron oxides. Traces of other toxic gases (toxic metal oxide smoke) cannot be excluded.

## **Section 6: Accidental Release Measures**

Personal Precautions, Protective Equipment and Emergency Procedures:

- Ensure adequate ventilation.
  - Avoid inhalation of dusts.
  - Avoid contact with skin and eyes.
  - Wear suitable protective clothing and gloves. (See Section 8)
  - Contaminated clothing should be thoroughly cleaned.

#### **Environmental Precautions:**

• Do not allow to enter drains, sewers or watercourses.

Methods and Material for Containment and Cleanup:

- Sweep up carefully.
- Transfer to a metal or heat resistant container for disposal.
- Wash spill area with soapy water.

Reference to Other Sections:

• Personal Protection: See Section 8.

## Section 7: Handling and Storage

Spontaneously Combu	stible 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 Decomposit	tion Byproducts: Hydrogen may evolve.
Hazardous Polymerizat	tion: Will not occur.
Precautions to be take	n in Handling and Storing:
• Kee	ep away from heat, sparks, and open flames.
• Kee	ep away from flammables and/or combustibles.
• Ave	oid inhalation of dusts.
• Ave	oid contact with skin and eyes.
• We	ear suitable protective clothing, eye protection and gloves. (See Section 8)
Conditions for Safe Sto	rage, Including any incompatibilities:
• Kee	ep away from flammables and/or combustibles.
• Kee	ep only in the original container.
Shipping/Storage:	
• Inn	er Packaging: Bags, nitrogen filled heat-sealed plastic/foil laminate, each containing not more than five (5) devices.
• Ou	ter Packaging: UN 1A2 steel pail or drum with sufficient dunnage to prevent movement during transport.
• No	t to exceed 5 boxes (50 devices) per steel pail overpack.
Specified End Use: No	n-electric ignition of exothermic cutting torch.
Section 8: Exposure Co	ontrols / Personal Protection

Exposure Limits:			
Components of mixture	CAS Number	EC	LTEL (8hr TWA mg/m³)
Nickel Powder, Non-Stabilized	7440-02-0	231-111-4	0.5
Aluminum, Compound	12003-78-0	234-439-6	10 (Inhalable Dust)
			4 (Respirable Dust)

Personal Protection:

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• Eye/Face Protection:

Goggles giving complete protection to eyes.

- Skin Protection: Protective gloves.
- Respiratory Protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

Protective Clothing:

Light protective clothing, boots, and gloves.

## **Section 9: Physical and Chemical Properties**

Physical State	Grey to black powder, metal foil strip, dull finish
Odor	No odor
Odor Threshold	Not applicable
Specific Gravity (H <sub>2</sub> O=1)	Approx. 4
Solubility	Insoluble in water

## Section 10: Stability and Reactivity

Reactivity:	Spontaneously flammable in air.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	May react vigorously with acids creating explosion hazard.
Conditions to avoid:	Keep away from heat and sources of ignition (flammables and combustibles).
Incompatible materials:	Strong oxidizing agents, acids.
Hazardous Decomposition Product(s):	Heat. May give off toxic fumes in a fire, metal oxides.

## Section 11: Toxicological Information

Acute toxicity: Ingestion: Inhalation: Skin Contact: Eye Contact:	LD50 (oral/rat): > 9000 mg/kg (Nickel) LC50 (inhalation/rat): 0.015 mg/m³/8h (Nickel) May cause burns. May cause burns.
Skin corrosion/irritation: Ski Serious eye damage/irritatio Respiratory or skin sensitiza Mutagenicity: No informatic Carcinogenicity: Category 2: Reproductive toxicity: No in STOT-single exposure: No in STOT-repeated exposure: Ca Aspiration hazard: Negative. Other information: No information	n contact may burn and cause irritation. n: May burn and cause eye irritation. ion: May cause sensitization by skin contact. n available. Suspected of causing cancer. ormation available. iormation available. uses damage to organs through prolonged or repeated exposure: Inhalation. nation available.

## Section 12: Ecological Information

Toxicity: Persistence and degradability:	LC50 (Fish)>100 mg/l/96h (Nickel) Not readily biodegradable.
Bio accumulative potential:	The substance has high potential for bioaccumulation.
Results of PBT and vPvB assessment:	No information available.
Other adverse effects:	No information available.

## Section 13: Disposal Consideration

Waste Disposal Method: Expose to air under controlled conditions. Material will burn or otherwise oxidize and become deactivated. Residue consists of iron and nickel metal oxides which are not hazardous and may be discarded in accordance with local, state and national legislation.

Do not empty into drains; dispose of this material and its container in a safe way.

Non-reacted material to be disposed of as hazardous waste. Disposal should be in accordance with local, state and national legislation.

## **Section 14: Transport Information**

UN Number:	3363
Proper Shipping Name:	Dangerous Goods in Apparatus (Activated Iron)
Transport hazard class(es):	9
Packing Group:	1
Environmental hazards:	Not classified as a Marine Pollutant
Special precautions for user:	Catches fire spontaneously if exposed to air
	Cannot be shipped by air; FORBIDDEN

Transport in bulk according to Annex II of MARPOL73/78 and the IBD Code: Not applicable

#### Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

United States 29 CFR 1910.1200(g), 'Safety data sheets'; EC Regulation (EC) No. 1907/2006, Regulation (EC) No. 1272/2008 (CLP), Directive 67/548/EEC & Directive 1999/45/EC.

## Section 16: Other Information

CAS = Chemical Abstracts Service; CNS = Central Nervous System; EINECS = European Inventory of Existing Commercial Chemical Substances; EC50 = Effective Concentration 50%; IARC = International Agency for Research on Cancer; IC50 = Inhibitory Concentration 50%; LC50 = Lethal Concentration 50%; LD50 = Lethal Dose 50%; LTEL = Long Term Exposure Limit; STEL = Short Term Exposure Limit; TWA = Time Weighted Average; References:

IUCLID Dataset: Nickel (19/02/2000) (http://ecb.jrc.ec.europa.eu 24/01/2010)

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