



**MATERIAL SAFETY DATA SHEET &
EMERGENCY RESPONSE INFORMATION**

Revised: 4/27/04

Manufacturer: AeroTech Division of RCS Rocket Motor Components, Inc.

Address: 2113 W. 850 N. St.
Cedar City, UT 84720

Emergency Response Telephone Number: (800) 535-5053 (Domestic), (352) 323-3500 (Int'l)

SECTION I - PRODUCT IDENTIFICATION

Product Name: Copperhead or FirstFire Igniter

Synonyms: Model Rocket Igniter, Tiger Tail Igniter
(Quest tradename), Toy Propellant Device (USPS)

Basic Description(s): Igniters, division 1.4S, UN0454, PG II

Flammable Solid, organic, n.o.s., division 4.1,
UN1325, PG II (per DOT-E 7887)

Technical Name: Model Rocket Igniter

SECTION II - HAZARDOUS INGREDIENTS

Copperhead and FirstFire igniters consist of a copper/Mylar/copper-based flex circuit material of various shapes and sizes or a two-conductor lead wire coated with up to 50 milligrams of flammable material which consists primarily of carbon black, carbon fibers, ammonium or potassium perchlorate (NH₄ClO₄ or KClO₄) and aluminum dispersed in a nitrocellulose-based binder.

SECTION III - PHYSICAL DATA

Boiling Point Range: Decomposes

Specific Gravity: Coating averages .06 lb./cubic inch

Appearance: Copper-like strips or wires with black coating on one end

Odor: Slight to none

Physical State: Solid

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Autoignition Temp.:	Approx. 550 Deg. F
Flammability Class:	Flammable
Extinguishing Media:	Water only
Special Fire Proc.:	Fire action: Water. Protect against toxic fumes.
Unusual Fire Hazard:	Burning igniters may give off hydrogen chloride gas.
Unusual Explosion Hazard:	None Anticipated

SECTION V - HEALTH HAZARD DATA

Effects of Overexposure

Acute: None Known.

Chronic: None Known.

Overexposure -

Eyes: Ammonium and potassium perchlorate is a mild irritant to the skin, eyes, mucous membranes and the digestive tract.

Skin: Ammonium and potassium perchlorate is a mild irritant to the skin, eyes, mucous membranes and the digestive tract.

Inhalation: No information available.

Ingestion: Ammonium and potassium perchlorate is a mild irritant to the skin, eyes, mucous membranes and the digestive tract.

SECTION VI - EMERGENCY FIRST AID PROCEDURES

Ingestion:	If swallowed, induce vomiting. Call a physician.
Inhalation:	Avoid breathing fumes.
Skin Contact:	For mild exhaust burns use a first aid burn ointment. For severe burns see a physician immediately.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Note to Physician:	Chemical of exposure is ammonium or potassium perchlorate, a mild gastric irritant.

SECTION VII - REACTIVITY DATA

Conditions to Avoid: Heat (coating autoignites at approx. 550 Deg. F).

Incompatibility: Acids

Haz. Decomp. Products: Oxides of carbon, hydrogen chloride gas

SECTION VIII - SPILL OR LEAK PROCEDURES

Spills: Replace igniters in boxes and seal securely.

Waste Disposal Method: Return live igniters to manufacturer. Dispose of spent igniters in inert trash.

SECTION IX - SPECIAL PROTECTION INFORMATION

Ventilation Requirements: None. Do not use igniters indoors.

Specific Personal Protective Equipment

Respiratory: None. Avoid breathing exhaust fumes.

Other Handling and Storage Requirements:

Store igniters away from sources of heat and highly flammable materials.