



Material Safety Data Sheet (MSDS): **Quest Tigertail Igniter**

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1.1 PRODUCT IDENTIFICATION:

Model Rocket Igniter, Tigertail Igniter (Quest trade name), and Toy Propellant Device (USPS)

Basic Description(s): Igniters, division I.4S, UN0454, PG II Flammable Solid, organic, n.o.s., division 4.1 UN1325, PG II (per DOT-SP-7887)
Technical Name: Model Rocket Igniter

1.2 HAZARDOUS INGREDIENTS / IDENTITY INFORMATION:

Tigertail Igniters consist of a copper /Mylar/copper-based flex circuit material of various shapes and sizes coated on one end 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.

1.3 PHYSICAL / CHEMICAL CHARACTERISTICS

Physical State:	Solid
Appearance and Odor:	Copper-like strips with black coating on one end with a slight to none odor.
Boiling Point:	Decomposes
Specific Gravity:	Coating Averages .06-lb./cubic inch

1.4 FIRE AND EXPLOSIVE HAZARD DATA

Auto ignition Temp:	Approx. 550 Deg. F
Extinguishing Media:	Water only
Explosion:	None anticipated

Special Fire Procedure:

Fire action: Water - protect against toxic fumes

Unusual Fire and Explosion Hazards: Fire - burning igniters may give off hydrogen chloride gas

End of Section 1.4

1.5 REACTIVITY DATA

Conditions to Avoid: Heat

Incompatibility
(Material to Avoid): Acids

Hazardous Decomposition
or By-products: Oxides of carbon, hydrogen chloride gas

1.6 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.

1.7 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.

1.8 REACTIVITY DATA

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

Incompatibility: Acids

Hazardous
Decomposition Products: Oxides of carbon, hydrogen chloride gas

End of Section 1.8

1.9 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.

2.0 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.

End of Section 2.0

End of Material Safety Data Sheet

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