



Material Safety Data Sheet (MSDS):

Quest Q2 Igniter

QUEST AEROSPACE INC.
PO Box 2976, Pagosa Springs, CO 81147-2976
Phone: 970-264-4050
Fax: 970-264-9330

24-Hour HAZMAT: (800) 424-9300

1.1 PRODUCT IDENTIFICATION::

Model Rocket Igniter, Q2 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:

Q2 Igniters consist of 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.

1.3 PHYSICAL / CHEMICAL CHARACTERISTICS

Physical State:	Solid
Appearance and Odor:	1 ½" long metal wires 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

Rev. 11/2009