



Material Safety Data Sheet (MSDS):

Quest Q2G2 Igniter

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1.1 PRODUCT IDENTIFICATION::

Model Rocket Igniter, Q2G2 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)
U.S. DOT EX2009060035
Technical Name: Model Rocket Igniter

1.2 HAZARDOUS INGREDIENTS / IDENTITY INFORMATION:

Q2G2 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:	3"-8" 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: None

End of Section 1.4

1.5

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 <i>or potassium perchlorate</i> , 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

Spills:

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