

ESTES - Material Safety Data Sheet

Identity (As Used on Label and List)

Estes Model Rocket Igniter

Classified and Shipped Domestically or Internationally as:

Igniter, UN 0454, Div. 1.4S, PG II

Shipped via the United States Postal Service via Surface Mail Only as:

Toy Propellant Devices

Shipped Domestically with Model Rocket Motors per DOT – SP 7887(Previously DOT – E 7887) as:

Flammable solid, organic, n.o.s., (Model rocket kits containing motors with or without un-installed igniters), UN 1325, Div. 4.1, PG II

Section I

Manufacturer's Name and Address

Estes-Cox Corp. d/b/a Estes Industries
P.O. Box 227, 1295 H Street
Penrose, CO 81240

Emergency Telephone Number

CHEM-TEL 800-255-3924

Telephone Number for Information

ESTES 719-372-6565

Date Prepared

January 31, 2007

Section II - Hazardous Ingredients/Identity Information

Pyrogen on tip of igniter consists of:

Potassium Nitrate (Saltpeter)

CAS 7757-79-1

Carbon

CAS 7440-44-0

Cornstarch

CAS 9005-25-8

Hide Glue

N/A

Section III - Physical/Chemical Characteristics

Boiling Point N/A

Specific Gravity N/A

Vapor Pressure N/A

Melting Point N/A

Vapor Density N/A

Evaporation Rate N/A

Solubility in Water Highly Soluble

Appearance and Odor: Vee-shaped device made of two chrome-colored wires approximately two inches (5 cm) long with a black tip of pyrogen. Wires may be spanned with tape. No odor.

Section IV – Fire and Explosion Hazard Data

Flash Point: Auto-ignition temperature 540° F (282° C)

Flammable Limits – N/A

LEL –N/A

UEL-N/A

Extinguishing Media – Water

Special Fire Fighting Procedures – None

Unusual Fire and Explosion Hazard – None

Section V – Reactivity Data

Stability: Stable- Avoid impact, friction, sparks, open flame and high temperatures

Incompatibility – N/A

Combustion Byproducts – Includes carbon monoxide

Hazardous Polymerization – Will not occur

Material Safety Data Sheet-Continued

Identity (As Used on Label and List)

Estes Model Rocket Igniter

Section VI – Health Hazard Data

Routes of Entry:	Inhalation-No	Skin-No	Ingestion-No
Health Hazards:	None		
Carcinogenicity:	NTP-N/A	IARC Monograph's-N/A	OSHA Regulated-N/A
Signs and Symptoms of Exposure:	None		
	Medical Conditions Aggravated by Exposure-None		

Emergency and First Aid Procedures:

For minor burns, apply first aid. For serious burns, see a physician.

Section VII – Precautions for Safe Handling

Steps to Be Taken in Case material is Released or Spilled

Model rocket igniters are devices in a solid state, simply pick up and place in containers approved for storage and transport.

Waste Disposal Method

Due to miniscule amount of material on igniters, they may be disposed of in an ordinary manner or fired in compliance with local, state and federal regulations.

Precautions to Be Taken in Handling and Storing

Store in a cool, dry area

Other Precautions

Always follow National Association of Rocketry's Model Rocketry Safety Code and all applicable laws and regulations.

Section VIII – Control Measures

Respiratory protection – None

Ventilation – Use or destroy outdoors only.

Protective Gloves - Not required

Eye protection – Not required

Other Protective Clothing or Equipment - Not required

Work/Hygienic Practices - Wash hands after handling igniters.