

9703

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved OMB No. 1218-0072



IDENTITY (As Used on Label and List)

Model Rocket Igniter

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

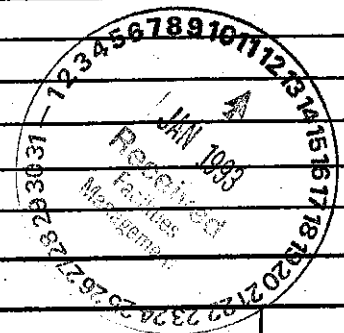
Section I

Table with 2 columns: Manufacturer's Name (Coating) Estes Model Rocket Igniter, Address (1295 H Street, Penrose, Colorado 81240), Emergency Telephone Number (1-800-255-3924), Telephone Number for Information (719-372-6565), Date Prepared (June, 1988), Signature of Preparer (optional).

Section II - Hazardous Ingredients/Identity Information

Table with 5 columns: Hazardous Components (Ammonium Perchlorate), OSHA PEL (Not Established), ACGIH TLV (As Nuisance Dust 10mg/m3, As Respirable Dust 5mg/m3), Other Limits Recommended (70% of coating), % (optional).

Handwritten list of product codes: SB-7260, SA-2657, SB15810, SB17917, SA-2658, SA-2664, SB18892, SB16337, SB-14938, SB18893, SB11149, SB12190, SB11148, SB16338, SA-2667, SA-2693, SA-2661, SB-1862, SB16339, SB15212, SA-2662.



Section III - Physical/Chemical Characteristics

Table with 3 columns: Boiling Point (N/A), Vapor Pressure (mm Hg) (N/A), Vapor Density (AIR = 1) (N/A), Specific Gravity (H2O = 1), Melting Point (N/A), Evaporation Rate (Butyl Acetate = 1) (N/A).

Solubility in Water

Slightly soluble.

Appearance and Odor

Coating is blackish in color - No appreciable odor.

Section IV - Fire and Explosion Hazard Data

Table with 4 columns: Flash Point (Method Used) (Autoignition Temperature about 550° F), Flammable Limits (N/A), LEL (N/A), UEL (N/A).

Extinguishing Media

Water

Special Fire Fighting Procedures

Normal procedures to prevent spread of fire.

Unusual Fire and Explosion Hazards

The coating contains its own oxygen and fuel.

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	Keep away from heat, sparks, and open flame. Avoid severe impact.
Incompatibility (Materials to Avoid) N/A			

Hazardous Decomposition or Byproducts Will include Hydrochloric Acid.

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	N/A

Section VI — Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?
 Primary route is ingestion.

Health Hazards (Acute and Chronic)
 Ammonium Perchlorate is a mild irritant to the skin, eyes, mucous membranes and the digestive tract.

Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?
 Not applicable

Signs and Symptoms of Exposure
 Redness of the eyes or skin. Sensitivity or irritation of mucous membranes. Digestive tract irritation or disorder.

Medical Conditions
 Generally Aggravated by Exposure Eye or skin disease, breathing or respiratory disorders and digestive tract disorders would be aggravated by exposure to ammonium perchlorate.

Emergency and First Aid Procedures
 If swallowed, induce vomiting. Call a physician. Note to physician: Chemical of exposure is ammonium perchlorate, a mild gastric irritant.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled
 Normal housekeeping procedures. Keep any crumbled coating separate.

Waste Disposal Method Follow Federal, State, and Local Regulations.
 Small quantities can be fired, one at a time, electrically (per normal use) or (with caution) manually. Small quantities of crumbled coating may be burnt in open, unconfined area.

Precautions to Be Taken in Handling and Storing
 Store in cool, dry place. Keep away from heat, sparks, and open flame. Avoid severe impact.

Other Precautions
 Use in open, unconfined area only.

Section VIII — Control Measures

Respiratory Protection (Specify Type) None required in open, unconfined areas

Ventilation	Local Exhaust	N/A	Special	N/A
	Mechanical (General)	N/A	Other	N/A

Protective Gloves N/A Eye Protection N/A

Other Protective Clothing or Equipment N/A

Work/Hygienic Practices N/A