



A Subsidiary of  
Industrial Solid Propulsion, Inc.

**MATERIAL SAFETY DATA SHEET &**

**EMERGENCY RESPONSE INFORMATION**

Revised: 10/19/93

**Manufacturer:** AeroTech, Inc.  
**Address:** 1955 S. Palm St., Suite 15  
Las Vegas, NV 89104  
**Emergency Response  
Telephone Number:** (800) 535-5053

**SECTION I - PRODUCT IDENTIFICATION**

**Product Name:** Rocket Motor Reload Kits  
**Synonyms:** RMS Reload Kits  
**Basic Description:** Articles, Explosive, N.O.S., 1.4C, UN0351, PG II  
**Technical Name:** Contains Ammonium Perchlorate

**SECTION II - HAZARDOUS INGREDIENTS**

Reload kits contain propellant and delay charge modules which consist primarily of ammonium perchlorate (NH<sub>4</sub>ClO<sub>4</sub>) dispersed in synthetic rubber. Reload kit ejection charges contain small quantities of black powder.

**SECTION III - PHYSICAL DATA**

**Boiling Point Range:** Decomposes  
**Specific Gravity:** Propellant ranges from .058 to .076 lb/cubic inch  
**Appearance:** Plastic bags containing various colored parts  
**Odor:** None  
**Physical State:** Solid

## SECTION VI - EMERGENCY FIRST AID PROCEDURES (Cont'd)

---

**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 perchlorate, a mild gastric irritant.

## SECTION VII - REACTIVITY DATA

---

**Conditions to Avoid:** Heat (propellant autoignites at 550 Deg. F).

**Incompatibility:** Acids

**Haz. Decomp. Products:** Oxides of carbon, hydrogen chloride gas

## SECTION VIII - SPILL OR LEAK PROCEDURES

---

**Spills:** Replace reload kits in boxes and seal securely.

**Waste Disposal Method:** Load reload kit into motor hardware. Pack motor firmly in hole in ground with nozzle pointing up. Ignite motor electrically and wait 5 minutes before approaching. Dispose of spent reload components in inert trash.

## SECTION IX - SPECIAL PROTECTION INFORMATION

---

### Ventilation

**Requirements:** None. Do not use reload kits indoors.

### Specific Personal Protective Equipment

**Respiratory:** None. Avoid breathing exhaust fumes.

### Other Handling and Storage Requirements:

Store reload kits away from sources of heat and highly flammable materials.

SINGLE USE MOTORS

ups <b>HAZARDOUS MATERIALS</b> ups		
UPS SHIPPER NUMBER	EMERGENCY CONTACT NUMBER	
<b>07E-895</b>	<b>1-800-535-5053</b>	
D.O.T. Proper Shipping Name		
<b>ARTICLES EXPLOSIVE, N.O.S.</b>		
<b>(CONTAINS AMMONIUM PERCHLORATE)</b>		
Hazard Class or Division	Identification Number	Packing Group
<b>1.4S</b>	<b>UN 0349</b>	<b>II</b>
Mass or Capacity	Type D.O.T. Label(s) and Required Information	
<b>31 LBS.</b>	<b>EXPLOSIVE 1.4S</b>	
<b>SHIPPING PAPER - Abbreviations not permitted</b>		
<b>SHIPPER: Use ball point pen and press firmly when preparing this form.</b>		

RELOAD KITS

ups <b>HAZARDOUS MATERIALS</b> ups		
UPS SHIPPER NUMBER	EMERGENCY CONTACT NUMBER	
<b>87E-895</b>	<b>1-800-535-5053</b>	
D.O.T. Proper Shipping Name		
<b>ARTICLES EXPLOSIVE, N.O.S.</b>		
<b>(CONTAINS AMMONIUM PERCHLORATE)</b>		
Hazard Class or Division	Identification Number	Packing Group
<b>1.4C</b>	<b>UN 0351</b>	<b>II</b>
Mass or Capacity	Type D.O.T. Label(s) and Required Information	
<b>17 LBS.</b>	<b>EXPLOSIVE 1.4C</b>	
<b>SHIPPING PAPER - Abbreviations not permitted</b>		
<b>SHIPPER: Use ball point pen and press firmly when preparing this form.</b>		