



**MATERIAL SAFETY DATA SHEET &
EMERGENCY RESPONSE INFORMATION**

Revised: 4/27/04

Manufacturer: AeroTech Division RCS Rocket Motor Components, Inc.

Address: 2113 W. 850 N. St.
Cedar City, UT 84720

Emergency Response Telephone Number: (800) 535-5053 (Domestic), (352) 323-3500 (Int'l)

SECTION I - PRODUCT IDENTIFICATION

Product Name: Rocket Motor Reload Kits

Synonyms: RMS™ Model Rocket and "Easy Access" Reload Kits, "KBA" Reload Kits

Basic Description: Articles, explosive, n.o.s., 1.4C, UN0351, PG II

Technical Name: Rocket motor reloading kits

SECTION II - HAZARDOUS INGREDIENTS

Solid propellant reload kits contain propellant and delay charge module(s) which consist primarily of ammonium perchlorate (NH₄ClO₄) dispersed in synthetic rubber. Solid propellant reload kit ejection charges contain small quantities of black powder. All reload kits also contain a variety of inert components of various shapes and sizes.

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: Slight to none

Physical State: Solid

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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| Autoignition Temp.: | 550 Deg. F |
| Flammability Class: | Flammable |
| Extinguishing Media: | Water only |
| Special Fire Proc.: | Fire action: Water. Protect against toxic fumes. |
| Unusual Fire Hazard: | Burning propellant gives off hydrogen chloride gas. |
| Unusual Explosion Hazard: | None Anticipated |

SECTION V - HEALTH HAZARD DATA

Effects of Overexposure

Acute: None Known.

Chronic: None Known.

Overexposure -

Eyes: Ammonium perchlorate is a mild irritant to the skin, eyes, mucous membranes and the digestive tract.

Skin: Ammonium perchlorate is a mild irritant to the skin, eyes, mucous membranes and the digestive tract.

Inhalation: No information available.

Ingestion: Ammonium perchlorate is a mild irritant to the skin, eyes, mucous membranes and the digestive tract.

SECTION VI - EMERGENCY FIRST AID PROCEDURES

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| Ingestion: | If swallowed, induce vomiting. Call a physician. |
| Inhalation: | Avoid breathing exhaust fumes. |
| Skin Contact: | For mild exhaust burns use a first aid burn ointment. For severe burns see a physician immediately. If loose ammonium perchlorate contacts skin, flush with plenty of water. |
| 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

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| Conditions to Avoid: | Heat (propellant autoignites at 550 Deg. F). |
| Incompatibility: | Acids |
| Haz. Decomp. Products: | Oxides of carbon, sulphur dioxide, hydrogen chloride gas |

SECTION VIII - SPILL OR LEAK PROCEDURES

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| 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.