MATERIAL SAFETY DATA SHEET &
EMERGENCY RESPONSE INFORMATION

Revised: 3/1/05

Manufacturer: Industrial Solid Propulsion Division
RCS Rocket Motor Components, Inc.

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

Emergency Response Telephone Number: (800) 535-5053

SECTION I - PRODUCT IDENTIFICATION

Product Name: Rocket Motor
Synonyms: RDS Motors, Fin Motors, Sounding Rocket Motors
Basic Description: Rocket Motors, 1.3C, UN0186, PG II

SECTION II - HAZARDOUS INGREDIENTS

Rocket motors contain a propellant composition which consists primarily of ammonium perchlorate (NH4ClO4) dispersed in synthetic rubber.

SECTION III - PHYSICAL DATA

Boiling Point Range: Decomposes
Specific Gravity: Propellant ranges from .058 to .076 lb/cubic inch
Appearance: Black plastic or metallic cylinders
Odor: None
Physical State: Solid
SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Autoignition Temp.: 550 Deg. F
Flammability Class: Flammable

SECTION IV - FIRE AND EXPLOSION HAZARD DATA (Cont’d)

Extinguishing Media: Water only
Special Fire Proc.: Rocket motors present a propulsive hazard. Protect against toxic fumes.
Unusual Fire Hazard: Rocket motors will likely become propulsive in a fire. 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

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.

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 rocket motors in boxes and seal securely.

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

SECTION IX - SPECIAL PROTECTION INFORMATION

Ventilation Requirements: None. Do not use rocket motors indoors.

Specific Personal Protective Equipment

Respiratory: None. Avoid breathing exhaust fumes.

Other Handling and Storage Requirements:

Store rocket motors away from sources of heat and highly flammable materials.