

## **RCS Rocket Motor Components, Inc.**

### **Material Safety Data Sheet & Emergency Response Information**

Prepared in accordance with 29 CFR § 1910.1200 (g)

#### **Section 1. Product Identification**

Propellant grains consist of paper or plastic tubes containing varying amounts of solid propellant with the trade names White Lightning™, Blue Thunder™, Black Jack™, Black Max™, Redline™, Warp-9™, Mojave Green™, Metalstorm™, Metalstorm DM™ or Propellant X™. These products contain varying percentages of Ammonium Perchlorate, Strontium and/or Barium Nitrate dispersed in synthetic rubber with lesser amounts of proprietary ingredients such as burn rate modifiers and metal fuels.

#### **Section 2. Physical Characteristics**

Paper or plastic tubes filled with a rubbery solid, little or no odor

#### **Section 3. Physical Hazards**

Propellant grains are flammable. All propellants give off varying amounts of Hydrogen Chloride and Carbon Monoxide gas when burned, Mojave Green propellant also produces Barium Chloride.

#### **Section 4. Health Hazards**

Propellant is an irritant in the case of skin and eye contact, may be extremely hazardous in the case of ingestion, and may be toxic to kidneys, lungs and the nervous system. Symptoms include respiratory irritation, skin irritation, muscle tightness, vomiting, diarrhea, abdominal pain, muscular tremors, weakness, labored breathing, irregular heartbeat, and convulsions. Inhalation of large amounts of combustion products may produce similar but lesser symptoms as ingestion.

#### **Section 5. Primary Routes of Entry**

Skin contact, ingestion, and inhalation.

#### **Section 6. Permitted Exposure Limits**

None established for manufactured product.

## **Section 7. Carcinogenic Potential**

None known.

## **Section 8. Precautions for Safe Handling**

Disposable rubber gloves are recommended for handling Mojave Green propellant. Keep away from flames and other sources of heat. Do not smoke within 25 feet of product. Do not ingest. Do not breathe exhaust fumes. Keep in original packaging until ready for use.

## **Section 9. Control Measures**

See section 8.

## **Section 10. Emergency & First Aid Procedures**

If ingested, induce vomiting and call a physician. If combustion products are inhaled, move to fresh air and call a physician if ill effects are noted. In the case of skin contact, wash area immediately and contact a physician if severe skin rash or irritation develops. For mild burns use a first aid burn ointment. For severe burns immerse the burned area in cold water at once and see a physician immediately.

## **Section 11. Date of Preparation or Revision**

January 10, 2014

## **Section 12. Contact Information**

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### **CALIFORNIA USE ONLY**

Perchlorate Material – special handling may apply. See:  
[www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate)