

# Material Safety Data Sheet

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

# U.S. Department of Labor

Occupational Safety and Health 29 CFR Administration (Non-Mandatory Form)

|  |   |
|--|---|
| IDENTITY (As Used on Label and List)<br><b>Quickshot – All Sizes, Silver or Gold</b> | Note: Blank spaces are not permitted. If any item is not applicable or not information is available, the space must be marked to indicate that. |
|--|---|

## SECTION I

|   |   |
|---|---|
| Manufacturer's Name<br><b>RES Specialty Pyrotechnics Inc.</b>   | Emergency Telephone Number<br><b>800-255-3924</b>       |
| Address (Number, Street, City, State and ZIP Code)<br><br><b>21595 286<sup>th</sup> Street<br/>Belle Plaine, MN 56011</b> | Telephone Number for Information<br><b>952-873-3113</b> |
|   | Date Prepared<br><b>March 2, 2009</b>                   |
|   | Signature of Preparer (optional)                        |

## SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity: Common Name(s)): OSHA PEL ACGIH TLV Other Limits %(Optional)

|   |      |         |                         |
|---|------|---------|-------------------------|
| POTASSIUM NITRATE CAS#7757-79-1 (Saltpeter) | N/A  | N/A     | Oral rat LD50:3750mg/kg |
| CHARCOAL CAS#64365-11-3                     | N/A  | N/A     | Nuisance dust           |
| SULFUR CAS#704-34-9                         | None | 10mg/m3 | Oral rat LD50:175mg/kg  |
| TITANIUM CAS#7440-32-6                      | N/A  | N/A     | Nuisance dust           |

**Contains a pyrotechnic composition, a solid mixture of fuel and oxidizer, which burns rapidly if ignited. These items are classified as 1.4G Explosives by the U.S. Department of Transportation. No chemical composition is exposed during normal storage and handling.**

## SECTION III - Physical/Chemical Characteristics

|   |  |
|---|--|
| Boiling Point <b>N/A</b>  | Specific Gravity (H <sub>2</sub> O = 1) <b>N/A</b> |
| Vapor Pressure (mm Hg.) <b>N/A</b>  | Melting Point <b>Ignites</b>                       |
| Vapor Density (AIR = 1) <b>N/A</b>  | Evaporation Rate (Butyl Acetate = 1) <b>N/A</b>    |
| Solubility in Water <b>Oxidizer component may dissolve after extended exposure to water</b> |  |
| Appearance and Odor : <b>Dark grey composition pressed in paper tube, no odor</b>           |  |

## SECTION IV - Fire and Explosion Hazard Data

|  |                             |                |                |
|--|-----------------------------|----------------|----------------|
| Flash Point (Method Used) <b>N/A</b>   | Flammable Limits <b>N/A</b> | LEL <b>N/A</b> | UEL <b>N/A</b> |
| Extinguishing Media <b>WATER</b>   |                             |                |                |
| Special Fire Fighting Procedures<br><b>Do not use suffocation methods, pyrotechnic composition supplies its own oxygen. Clear area and allow to burn out, then treat as normal fire.</b> |                             |                |                |
| Unusual Fire and Explosion Hazards<br><b>Devices may burn explosively and rupture storage containers.</b>  |                             |                |                |

**SECTION V - Reactivity Data**

|  |                |          |  |
|--|----------------|----------|--|
| Stability  | Unstable       |          | Conditions to Avoid: <b>Heat, sparks, open flame</b> |
|  | Stable         | <b>X</b> |  |
| Incompatibility (Materials to Avoid) <b>Acids, Water</b>   |                |          |  |
| Hazardous Decomposition or Byproducts <b>Smoke, nitrogen oxides and sulfur oxides when burning</b> |                |          |  |
| Hazardous Polymerization   | May Occur      |          | Conditions to Avoid <b>NONE</b>                      |
|  | Will Not Occur | <b>X</b> |  |

**SECTION VI - Health Hazard Data**

|  |   |   |                           |
|--|---|---|---------------------------|
| Route(s) of Entry  | Inhalation? <b>NO</b>   | Skin? <b>NO</b>   | Ingestion? <b>NO</b>      |
| Health Hazards (Acute and Chronic)   |   |   |                           |
| Carcinogenicity  | NTP? <b>NO</b>  | IARC Monographs? <b>NO</b>                                  | OSHA Regulated? <b>NO</b> |
| Signs and Symptoms of Exposure   | <b>Eye, skin and respiratory irritation possible</b>                    |   |                           |
| Medical Conditions Generally Aggravated By Exposure<br><b>sensitivity to ingredients</b> | <b>Pre-existing respiratory conditions such as asthma, allergies or</b> |   |                           |
| Emergency and First Aid Procedures<br><b>physician if condition persists.</b>            | <b>Eyes: Flush with water.</b>  | <b>Respiratory: Remove patient to fresh air and contact</b> |                           |

**SECTION VII - Precautions for Safe Handling and Use**

|  |   |
|--|---|
| Steps to be Taken in Case Material is Released or Spilled<br><b>container.</b> | <b>No smoking and open flames. Sweep spilled materials into cardboard</b>                       |
| Waste Disposal Method  | <b>Dispose in compliance with state, federal and local regulations.</b>                         |
| Precautions to be Taken in Handling and Storing                                | <b>Keep materials cool and dry. Keep away from heat and other sources of possible ignition.</b> |
| Other Precautions  | <b>NONE</b>   |

**SECTION VIII - Control Measures**

|   |   |                   |  |
|---|---|-------------------|--|
| Respiratory Protection (Specify Type) <b>NONE</b>             |   |                   |  |
| Ventilation   | Local Exhaust                                       | <b>Acceptable</b> | Special <b>NONE</b>                              |
|   | Mechanical (General)                                |                   | Other  |
| Protective gloves   | <b>None required</b>                                |                   | Eye Protection <b>Safety Glasses Recommended</b> |
| Other Protective Clothing or Equipment <b>Cotton clothing</b> |   |                   |  |
| Work/Hygienic Practice  | <b>No smoking, eating or drinking when handling</b> |                   |  |