

# Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

# U.S. Department of Labor

Occupational Safety and Health Administration  
(Non-Mandatory Form)

Form Approved  
OMB No. 1218-0072 F-2, H-1, R-0



IDENTITY (As Used on Label and List) ROYAL SHIELD

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

## Section I

Manufacturer's Name Royaltone Co. Inc.	Emergency Telephone Number 918-663-9666
Address (Number, Street, City, State, and ZIP Code) 9504 E 55th St. Tulsa OK 74145	Telephone Number for Information 918-622-6677
	Date Prepared 10/20/05
	Signature of Preparer (optional)

## Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Mixture of C <sub>10</sub> -C <sub>13</sub> Isoparaffins	N.E.	N.E.	400ppm/supplier	
Petroleum Distillate (Mineral Spirits) (CAS No. 8052-41-3)	N.E.	N.E.	N/A	
2-Propanol Titanate (CAS No. 546-68-9)	N.E.	N.E.	N/A	

## Section III — Physical/Chemical Characteristics

Boiling Point	N.D.	Specific Gravity (H <sub>2</sub> O = 1)	APPROX.	0.768
Vapor Pressure (mm Hg.)	N.D.	Melting Point		N.D.
Vapor Density (AIR = 1)	N.D.	Evaporation Rate (Butyl Acetate = 1)		N.D.

Solubility in Water

Negligible

Appearance and Odor

Clear. Slightly yellowish liquid; sweet petroleum hydrocarbon naphtha odor.

## Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) 100°F Combustible liquid	Flammable Limits	LEL N.D.	UEL N.D.
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Extinguishing Media

Dry chemical, foam, carbon dioxide, water spray (fog)

Special Fire Fighting Procedures

Do not use a direct stream of water. Product will float and can be reignited on surface of water. Caution: combustible liquid. Cool fire-exposed containers. Wear a NIOSH approved positive pressure self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards

Empty containers are dangerous because of residual liquid/vapor in container. Vapor may form explosive mixtures with air. Vapors may accumulate and travel to ignition sources distant from the handling site.

**Section V — Reactivity Data**

Stability	Unstable		Conditions to Avoid
	Stable	X	Avoid heat, open flames and sparks Keep away from any contact with water

Incompatibility (Materials to Avoid) Avoid oxidizing agents

Hazardous Decomposition or Byproducts Thermal decomposition may produce oxides of carbon, ammonia, organic nitrogen products, smoke, fumes and silicone dioxide

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	None

**Section VI — Health Hazard Data**

Route(s) of Entry: Inhalation?  yes Skin?  No Ingestion?  No

Health Hazards (Acute and Chronic) EYE CONTACT—liquid is an eye irritant. High vapor concentrations may cause irritation. SKIN CONTACT—liquid is mildly irritating to skin. Prolonged or repeated contact can result in defatting and dermatitis. INHALATION—vapors may be irritating to nose, throat, and respiratory tract. High vapor concentrations may cause central nervous depressions. INGESTION may result in vomiting. Aspiration of vomitus into Lungs must be avoided. It may result in aspiration pneumonitis.

Carcinogenicity: NTP? NO IARC Monographs? NO OSHA Regulated? NO

Kidney injury & kidney cancer & lung & liver damage have been reported to occur in male rats exposed to hydrocarbon mixtures.

Signs and Symptoms of Exposure Irritations as noted above. Early to Moderate central nervous depression may be evidenced by giddiness, headache, dizziness, and nausea. In extreme cases, unconsciousness & death may occur. Aspiration pneumonitis may be evidenced by coughing, labored breathing, bluish skin. In severe cases death may occur.

Medical Conditions Generally Aggravated by Exposure Preexisting eye, skin & respiratory disorders may be aggravated by exposure to this product.

Emergency and First Aid Procedures EYE contact—flush with plenty of water for 15 min. Get medical attention. SKIN—wash with soap & water. If irritation occurs, get medical attention. INHALATION—remove victim to fresh air & provide oxygen if breathing is difficult. Give artificial Respiration if breathing. Get Medical attention. Ingestion—DO NOT induce vomiting, get medical attention.

**Section VII — Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material Is Released or Spilled Contain spill. Eliminate all potential sources of ignition. Wear NIOSH approved respirator and protective clothing. Maintain proper adequate ventilation. Absorb small amounts with appropriate inert material, Large amounts may be pumped into containers for recovery or disposal.

Waste Disposal Method Dispose of according to federal, state, county and local regulations.

Precautions to Be Taken in Handling and Storing Keep in a cool dry area away from heat, sparks and flames. Surfaces that are sufficiently hot may ignite even liquid product in the absence of sparks or flame. Keep container closed when not in use. Store with adequate ventilation.

Other Precautions Ground fixed equipment. Bond and Ground Transfer containers. Containers including "empty" ones can contain explosive vapors. Avoid skin & eye contact. Avoid breathing vapors or mist. Do Not Ingest. Use with adequate ventilation away from all sources of ignition.

**Section VIII — Control Measures**

Respiratory Protection (Specify Type) Normally not required. In concentration above TLV's wear a NIOSH approved respirator

Ventilation	Local Exhaust Recommended to keep vapor levels below TLV	Special Use explosion-proof ventilation
	Mechanical (General) Adequate recommended	Other N/A

Protective Gloves Impervious Eye Protection Chemical safety goggles.

Other Protective Clothing or Equipment Apron, eyewash fountain, safety shower.

Work/Hygienic Practices Air dry contaminated clothing in a well ventilated area, then launder before reusing. Wash thoroughly after handling.