

## Steam Cylinder Oil 1000-5% Product Code: 643

### SECTION 1: PRODUCT IDENTIFICATION

<b>Product Name</b>	Steam Cylinder Oil 1000-5%
<b>Product Code #</b>	643
<b>CAS #</b>	Not applicable for mixtures
<b>Manufacturer</b>	Royal Mfg Co, LP
<b>Synonym</b>	Not applicable
<b>Chemical Name</b>	Not applicable
<b>Chemical Formula</b>	Not applicable
<b>Trade Secret</b>	No
<b>Address</b>	516 S. 25th West Ave. Tulsa, OK 74127
<b>Phone</b>	(918) 584-2671
<b>Emergency Contact</b>	CHEMTREC (24 hour Emergency Telephone), call: 1-800-424-9300 International CHEMTREC, call: 1-800-255-3924
<b>Recommended Use</b>	Steam Cylinders
<b>Restrictions on Use</b>	This product must not be used in applications other than recommended in Section 1 without taking the advice from supplier/manufacturer.

### SECTION 2: HAZARD(S) IDENTIFICATION

<b>Classifications:</b>	Aquatic Hazard – Acute: Category 3 Aquatic Hazard – Long-term: Category 4
<b>Pictograms:</b>	None
<b>Signal Word:</b>	None
<b>Hazard Statements:</b>	Harmful to aquatic life. May cause long lasting harmful effects to aquatic life.
<b>Precautionary Statements:</b>	P101: If medical advice is needed have product container or label at hand P102: Keep out of reach of children P103: Read Label before use P210: Keep away from Heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking. P211: So not spray on an open flame or other ignition source. P232: Protect from Moisture. P233: Keep container tightly closed P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection P404: Store in a closed container
<b>Percent of the mixture consisting of ingredient(s) of unknown toxicity:</b>	None

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### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Designation	CAS No.	% of Comp.
Mineral Oil	64742-54-7	25 - 50%
Residual Oils (Petroleum), Solvent Deasphalted	64741-95-3	25 - 50%
Lard Oil	8016-28-2	1 - 5%

### SECTION 4: FIRST AID MEASURES

<b>Eyes:</b>	Flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.
<b>Skin:</b>	Immediately remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.
<b>Inhalation:</b>	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration using a pocket mask type resuscitator. Call a physician immediately.
<b>Ingestion:</b>	Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

### SECTION 5: FIRE FIGHTING MEASURES

<b>Fire Hazard:</b>	No
<b>Flash Point °C (°F):</b>	> 93.0° (199.4°)
<b>Flammable Limits:</b>	LOWER: Not determined UPPER: Not determined
<b>Extinguishing Media:</b>	Water Mist Foam Dry Powder CO2
<b>Special protective Equipment and firefighting procedures:</b>	Not determined
<b>Unusual Fire &amp; Explosion:</b>	Not determined

### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged container or spilled material unless wearing appropriate protective clothing/equipment. Ventilate the closed area.
<b>Spills / Leaks:</b>	Isolate the spill/leak area in all directions for about 50 meters (150 ft) for liquids and about 25 meters (75 ft) for solids and semi-solids. Eliminate all ignition sources (no smoking, flares, sparks/flames in close vicinity). Keep unauthorized persons away and ventilate closed space before entering

### SECTION 7: HANDLING & STORAGE

<b>Handling:</b>	Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and prompt removal of material from eyes skin and clothing.
<b>Storage:</b>	Store in a sealed container in a cool, dry environment.

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Limits:</b>	
<b>OSHA Permissible Exposure Limits (PELs) :</b>	5 mg/m <sup>3</sup>
<b>Threshold Limit Values (TLVs):</b>	10 mg/m <sup>3</sup>

#### Engineering Controls:



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If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required

### Personal Protective Equipment:

**Face:** The use of face protection is not normally required; however, good industrial hygiene practice suggests the use of eye protection that meets or exceeds ANSI Z.87.1 whenever working with chemicals.

**Eyes:** Safety Glasses

**Skin:** The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. Suggested protective materials: Nitrile

**Respiratory:** Where there is potential for airborne exposure above the exposure limit a NIOSH certified air purifying respirator equipped with R or P95 filters may be used. A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator.

### Pictograms:



Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Dark Amber / Black Liquid	<b>Upper Flammability/Explosive Limit:</b>	Not determined
<b>Odor:</b>	Petroleum / Animal Fat / Characteristic	<b>Lower Flammability/Explosive Limit:</b>	Not determined
<b>Odor Threshold:</b>	Not determined	<b>Vapor Pressure:</b>	Not determined
<b>pH:</b>	Not determined	<b>Vapor Density:</b>	Not determined
<b>Melting Point °C (°F):</b>	Not determined	<b>Vapor Temperature °C (°F):</b>	Not determined
<b>Freezing Point °C (°F):</b>	Not determined	<b>Relative Density/Specific Gravity:</b>	0.9200
<b>Pour Point °C (°F):</b>	N/A	<b>Solubility:</b>	Not Water Soluble
<b>Boiling Range:</b>	N/A	<b>Partition Coefficient:</b>	Not determined
<b>Flash Point °C (°F):</b>	> 93.0° (199.4°)	<b>Auto-ignition temperature:</b>	Not determined
<b>Flash Point Method:</b>	ASTM D92	<b>Decomposition temperature:</b>	Not determined
<b>Evaporation Rate:</b>	Not determined	<b>Viscosity (cSt):</b>	1016.00 @ 40° C
<b>Flammability:</b>	None	<b>VOC Content:</b>	N/A
		<b>VOC Less Water &amp; Exempts:</b>	N/A

## SECTION 10: STABILITY AND REACTIVITY

<b>Chemical Reactivity:</b>	Not determined
<b>Chemical Stability:</b>	Stable under normal ambient temperature and conditions.
<b>Conditions to Avoid:</b>	Extreme temperature and direct sunlight/heat/flame
<b>Materials to Avoid:</b>	Strong oxidizing agents
<b>Hazardous Decomposition:</b>	Not expected

## SECTION 11: TOXICOLOGICAL INFORMATION

### Inhalation

**Description of effects from short- and long-term exposure:**

Not known

**Description of symptoms:**

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Not known

**Measure of toxicity:**

Not known

**Ingestion**

**Description of effects from short- and long-term exposure:**

Not known

**Description of symptoms:**

May cause nausea and vomiting.

**Measure of toxicity:**

Not known

**Eyes**

**Description of effects from short- and long-term exposure:**

Not known

**Description of symptoms:**

Contact may cause eye irritation.

**Measure of toxicity:**

Not known

**Skin**

**Description of effects from short- and long-term exposure:**

Not known

**Description of symptoms:**

Prolonged or repeated skin contact may cause irritation.

**Measure of toxicity:**

Not known

**Carcinogens listing:**

**NTP:** No

**IARC:** No

**OSHA:** No

**GHS:** No

**Chronic Toxicity:** No

### SECTION 12: ECOLOGICAL INFORMATION

**Aquatic Toxicity:** No data available

**Biodegradability:** No data available

**Bioaccumulation:** No data available

### SECTION 13: DISPOSAL CONSIDERATION

Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations. Regulations may vary by location.

### SECTION 14 : TRANSPORT INFORMATION

UN Number: Not regulated in transportation by DOT/IMO/IATA. Not classified as dangerous in the meaning of transport regulation.

Proper Shipping Name: Steam Cylinder Oil 1000

**Pictograms:**



## Steam Cylinder Oil 1000-5%

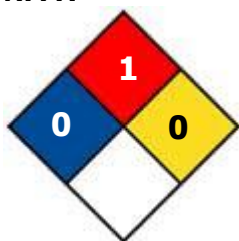
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### SECTION 15: REGULATORY INFORMATION

<b>OSHA Regulated Hazard:</b>	No	
<b>DOT Regulated:</b>	No	
<b>E C Classification:</b>	Non-applicable	
<b>TSCA Status:</b>	In compliance with TSCA inventory requirements for commercial purposes	
<b>SARA 312 Regulated Chemical(s):</b>	No	
<b>SARA 313 Regulated Chemical(s):</b>	No	
<b>EPA Registration Number:</b>	Non-applicable	
<b>California Prop. 65:</b>	None	None
<b>PA Right to know Chemical(s):</b>	None known	
<b>NJ Right to know Chemical(s):</b>	None known	
<b>Additional State Regulations:</b>	None known	
<b>Canada:</b>	Non-applicable	

### SECTION 16: OTHER INFORMATION

#### NFPA



#### HMIS

<b>Steam Cylinder Oil 1000-5%</b>	
<b>HEALTH</b>	<b>0</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>REACTIVITY</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<b>B</b>

The above Information is based on the present state of our knowledge of the product at the time of publication. No warranty is implied with respect to the quality or the specification of the product and the user must satisfy themselves that the product is entirely suitable for their purposes.

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## End of SDS