

## Section 1. Chemical product and company identification

<b>Common name</b>	: ROYCO 555
<b>MSDS#</b>	: EH1054
<b>MILSPEC#</b>	: DOD-PRF-85734
<b>Material use</b>	: Lubricant.
<b>Supplier/ Manufacturer</b>	: Anderol Inc., 215 Merry Lane, East Hanover, NJ 07936 Tel: (973) 887-7410 Fax: (973) 887-8422
<b>In case of emergency</b>	: CHEMTREC: 800-424-9300 (United States)

## Section 2. Hazards identification

<b>Physical state</b>	: Liquid.
<b>Emergency overview</b>	: No specific hazard. USE WITH CARE. Follow good industrial hygiene practice.
<b>Routes of entry</b>	: Dermal contact. Eye contact. Inhalation. Ingestion.
<b>Potential acute health effects</b>	
<b>Eyes</b>	: No known significant effects or critical hazards.
<b>Skin</b>	: No known significant effects or critical hazards.
<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Ingestion</b>	: No known significant effects or critical hazards.
<b>Potential chronic health effects</b>	: Carcinogenic effects: Not applicable. Mutagenic effects: Not applicable. Teratogenic effects: Not applicable.
<b>Medical conditions aggravated by overexposure</b>	: Repeated or prolonged exposure is not known to aggravate medical condition.

See toxicological Information (section 11)

## Section 3. Composition, Information on Ingredients

This material is classified as not hazardous under OSHA regulations in the United States, the WHMIS in Canada, the NOM-018-STPS-2000 in Mexico and Brazil NBR 14725:2001.  
See Chapters 8, 11 and 14 for details.

## Section 4. First aid measures

<b>Eye contact</b>	: Check for and remove any contact lenses. In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Get medical attention if irritation occurs.
<b>Skin contact</b>	: Wash with soap and water. Get medical attention if irritation occurs.
<b>Inhalation</b>	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
<b>Ingestion</b>	: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
<b>Notes to physician</b>	: Not available.

## Section 5. Fire fighting measures

<b>Flammability of the product</b>	: May be combustible at high temperature.
<b>Flash point</b>	: Open cup: 263°C (505.4°F) (Cleveland.).
<b>Products of combustion</b>	: The final products of combustion are carbon oxides and water. Nitrogen, sulfur and metal oxides may also be produced in some cases.
<b>Fire fighting media and instructions</b>	: Use an extinguishing agent suitable for surrounding fires.  No specific hazard.

- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.
- Special remarks on fire hazards** : Container explosion may occur under fire conditions or when heated. Cool closed containers exposed to fire with water.

## Section 6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

## Section 7. Handling and storage

- Handling** : Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8. Exposure Controls, Personal Protection

- Engineering controls** : Good general ventilation should be sufficient to control airborne levels. Ensure that eyewash stations and safety showers are proximal to the work-station location.
- Personal protection**
- Eye protection** : Safety glasses with side shields.



- Respiratory protection** : Not applicable.

- Hand protection** : Natural rubber (latex).



- Skin protection/Body** : Not applicable.

- Personal protection in case of a large spill** : Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

Consult local authorities for acceptable exposure limits.

## Section 9. Physical and chemical properties

- Physical state** : Liquid.
- Color** : Tan. (Light.)
- Odor** : Slight.
- Specific gravity** : 0.9937 (Water = 1)

## Section 10. Stability and reactivity

- Stability and reactivity** : The product is stable.
- Incompatibility with various substances** : Reactive with oxidizing agents.
- Hazardous polymerization** : Will not occur.

## Section 11. Toxicological information

### Toxicity data

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Tricresylphosphate	LD50	3900 mg/kg	Oral	Mouse

### Acute Effects

- Eyes** : No known significant effects or critical hazards.
- Skin** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Potential chronic health effects** : Carcinogenic effects: Not applicable.  
Mutagenic effects: Not applicable.  
Teratogenic effects: Not applicable.

## Section 12. Ecological information

### Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Tricresylphosphate	Daphnia magna (EC50)	48 hour(s)	3.2 mg/l
	Daphnia magna (EC50)	48 hour(s)	3.6 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	0.082 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	0.15 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	0.26 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	0.4 mg/l

- Products of degradation** : The final products of biodegradation are carbon oxides and water. Nitrogen and sulfur oxides and metal salts may also be produced in some cases.

## Section 13. Disposal considerations

- Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

## Section 14. Transport information

### Classification

**Brazil/Mexico/TDG/DOT/IMDG/IATA**: Not regulated.

### Label

Not applicable.

### Additional information

## Section 15. Regulatory information

### United States

**U.S. Federal regulations** : TSCA 8(b) inventory: All components listed.  
 SARA 302/304/311/312 extremely hazardous substances: No products were found.  
 SARA 302/304 emergency planning and notification: No products were found.  
 SARA 302/304/311/312 hazardous chemicals: No products were found.  
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.  
 Clean Water Act (CWA) 307: No products were found.  
 Clean Water Act (CWA) 311: No products were found.  
 Clean air act (CAA) 112 accidental release prevention: No products were found.  
 Clean air act (CAA) 112 regulated flammable substances: No products were found.  
 Clean air act (CAA) 112 regulated toxic substances: No products were found.

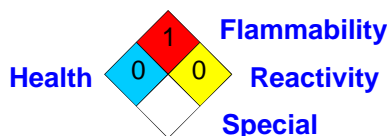
**State regulations** : New Jersey: 1-Naphthaleneamine, N-Phenyl-AR-(1,1,3,3-Tetramethylbutyl)-;  
 Tricresylphosphate  
 California prop. 65: No products were found.

### Canada

**WHMIS (Canada)** : Not controlled under WHMIS (Canada).  
 CEPA DSL: All components listed.

### Mexico

**Classification** :



### International regulations

**International lists** : Australia (NICNAS); CHINA INVENTORY (IECS); JAPAN INVENTORY (ENCS);  
 KOREA INVENTORY (ECL); PHILIPPINE INVENTORY (PICCS): All components listed.

## Section 16. Other information

<b>Hazardous Material Information System (U.S.A.)</b> :	Health	0
	Fire hazard	1
	Reactivity	0
	Personal protection	C

**National Fire Protection Association (U.S.A.)** :

A GHS hazard diamond with four colored sections: blue (top-left) labeled 'Health' with '0', red (top-right) labeled 'Flammability' with '1', yellow (bottom-left) labeled 'Instability' with '0', and white (bottom-right) labeled 'Special' with '0'.

**References** : ANSI Z400.1, MSDS Standard, 2004. -Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. -Canada Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List". - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2002. - Official Mexican Standards NOM-018-STPS-2000 and NOM-004-SCT2-1994. Brazil NBR 14725:2001.

**Responsible name** : Mr. Max Naggar

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**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Authored by **KEMIKA**

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