



# MATERIAL SAFETY DATA SHEET

## SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Company Name</b> Nu-Calgon Wholesaler, Inc.	<b>Phone Number</b> (314) 469-7000 / (800) 554-5499	<b>CHEMTREC</b> (800) 424-9300		
<b>Street Address</b> 2008 Altom Court	<b>City</b> St. Louis	<b>State</b> MO	<b>Postal Code</b> 63146-4151	<b>Last Update</b> 5/24/10
<b>Product Name</b> Zerol 400CA	<b>Product Number</b> 4311-65	<b>Product Use</b> Lubricant		<b>EPA Registration #</b> N/A

## SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	<u>% By Wt.</u>	<u>CAS Number</u>	<u>TLV</u>	<u>PEL</u>
Alkylaryl Hydrocarbon	96.7	68855-24-3	No Data.	No Data.
Butylated Triphenyl Phosphate Ester	3	115-86-6	No Data.	No Data.
Dibutyl Paracresyl (DBPC)	0.3	No Data.	No Data.	No Data.

## SECTION 3 – HAZARD IDENTIFICATION

**Emergency Overview:** Triphenyl Phosphate, which comprises 0.75-0.9% of this product has been reported to be a cholinesterase inhibitor in humans. Inform the person contacted of the type and extent of exposure, describe the victim's symptoms, and follow the advice given. Exposure to this product may cause cholinesterase inhibition. If cholinesterase inhibition is suspected, atropine by injection is antidotal. 2-PAM (Protopam Chloride) is also antidotal when administered early and in conjunction with atropine.

### Potential Health Effects

**Eyes:** Expected to cause no more than minor eye irritation. Application of a similar product into the eyes of rabbits produced very slight membrane irritation without corneal injury. Avoid eye contact as good industrial practice.

**Skin:** Not a primary skin irritant but may cause skin irritation on repeated or prolonged contact. Application of a similar product onto the skin of rabbits produces light erythema and edema. The Draize score was 0.6. Not expected to be acutely toxic by skin absorption. The acute dermal LD50 (rabbits) was greater than 5g/kg for a similar product.

**Ingestion:** May cause nausea. Not expected to be acutely toxic by ingestion. The acute oral LD50 (rat) was greater than 5 g/kg for a similar product.

**Inhalation:** Avoid breathing vapor or mist. Under normal conditions, this product is not an inhalation hazard. Prolonged exposure to vapors may cause dizziness and headaches.

**Chronic Exposure:** No Data.

**Carcinogenicity:** No Data.

**Medical Conditions Aggravated by Exposure:** No Data.

## SECTION 4 – FIRST AID MEASURES

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes while holding the eyelids open. If irritation persists, see a physician.

**Skin:** Remove contaminated clothing. Wash skin thoroughly with soap and water. Launder contaminated clothing. See doctor if irritation persists.

**Ingestion:** If swallowed, call a physician immediately. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person. If medical advice cannot be obtained, take the person, product container and MSDS to the nearest medical emergency center.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration and seek medical attention immediately. Remove material from eyes, skin and clothing.

## SECTION 5 – FIREFIGHTING MEASURES

**Flash Point:** 175°C/347 °F

**Autoignition Temp:** 427°C/800°F

**Hazardous Products of Combustion:** No Data.

**Flammable Limits in Air:** No Data.

**Extinguishing Media:** CO2, Dry chemical, foam, water fog.

**Fire and Explosion Hazards:** No Data.

**Special Firefighting Procedures:** Cool exposed equipment with water spray. Firefighters and others exposed to vapors or products of combustion should use self-contained breathing apparatus and wear full protective clothing.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Spill or Leak:** This material is not expected to present any environmental problems other than those normally associated with oil spills. Contain spills & leaks to prevent discharge to the environment. Absorb spill with inert material, then place in a chemical waste container. For large spills dike for later disposal. U.S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spills to Coast Guard toll free number (800) 424-8802.

## SECTION 7 – HANDLING AND STORAGE

**Handling Procedures and Equipment:** No Data.

**Storage Requirements:** No Data.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection:** Avoid breathing vapor or mist. Use NIOSH/MSHA approved respiratory equipment when airborne exposure is excessive. Consult respirator manufacturer to determine appropriate type equipment for given application.

**Eye Protection:** No special eye protection is necessary. Avoid eye contact as good industrial practice.

**Protective Clothing:** Avoid prolonged or frequently repeated contact. Skin contact can be minimized by wearing impervious protective clothing including gloves.

**Exposure Guidelines:** No Federal OSHA PEL or ACGIM TLV has been established for this material. However, the product contains triphenyl phosphate (0.9% max.) for which the following exposure limits apply: The Federal OSHA Permissible Exposure Limit (PEL) is 3mg/m3 as an 8-hour time-weighted average.

**Specific Engineering Controls (such as ventilation, enclosed process):** Mechanical ventilation is recommended if handling at elevated temperatures or if it is handled in such a manner as to cause mists or vapor to form.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical Form:</b> Oily Liquid	<b>Freezing Point:</b> No Data.°C/No Data.°F	<b>% Volatile by Weight:</b> No Data.%
<b>Color:</b> Water-white to yellowish amber	<b>Vapor Density [air =1]:</b> No Data.	<b>Evaporation Rate:</b> No Data.
<b>Odor:</b> slight hydrocarbon odor	<b>Vapor Pressure:</b> (mm Hg @ 40° C) LT0.001	<b>Specific Gravity:</b> 0.88
<b>Boiling Point:</b> 322°C/612°F	<b>Solubility in Water:</b> insoluble	<b>pH (concentrate):</b> No Data.

## SECTION 10 – STABILITY AND REACTIVITY

**Chemical Stability:** Stable (Thermal, Light)

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** May react with strong oxidizing materials.

**Reactive Conditions to avoid:** No Data.

**Decomposition Products:** Normal combustion of alkylaryl hydrocarbon forms carbon dioxide & water vapor. Incomplete combustion can form carbon monoxide. Butylated triphenyl phosphate hydrolyzes slowly at ambient temperatures when exposed to wet alkaline or acidic conditions. Also hydrolyzes at temperatures of 150°F(66°C) or greater when exposed to atmospheric moisture. Upon hydrolysis, phenol, substituted phenols & phosphoric acids are formed.

## SECTION 11 – TOXICOLOGICAL INFORMATION

<b>Hazardous Ingredients</b>	<b>CAS #</b>	<b>EINECS #</b>	<b>LD 50 of Ingredient</b> (Specify Species)	<b>LC50 of Ingredient</b> (Specify Species)
No Data.				

## SECTION 12 – ECOLOGICAL INFORMATION

<u>Hazardous Ingredients</u>	<u>Aquatic Toxicity Data</u>
	96-hr LC50 Rainbow trout ( <i>Salmo gairdneri</i> ): >1000mg/l practically non-toxic. 96-hr LC50 Sheepshead Minnow ( <i>Cyprinodon variegatus</i> ): >1000mg/l practically non-toxic
	Biodegradation: This material has not been tested for biodegradation. It is expected to be resistant.

## SECTION 13 – DISPOSAL CONSIDERATIONS

**Waste Disposal:** Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. Discarded product should be incinerated or disposed of only in accordance with local, state and federal regulations.

## SECTION 14 – TRANSPORTATION INFORMATION

**Special Shipping Information:** Electric Accumulation Hazard: When transferring this product, There is a potential for the accumulation of static electricity. Consideration should be given to bonding & grounding of equipment during loading, unloading and transfer of this product. U.S. Surface Freight Classification: Petroleum Alkylate Detergent Intermediate (Petroleum Oil, N.O.I.B.N.)

<u>Purview</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
<b>DOT</b> (Land)	No Data.	No Data.	No Data.	No Data.
<b>IMO</b> (Water)	No Data.	No Data.	No Data.	No Data.
<b>ICAO</b> (Air)	No Data.	No Data.	No Data.	No Data.

## SECTION 15 – REGULATORY INFORMATION

<b>WHMIS Classification:</b> (Workplace Hazardous Material Information System)	Not regulated by WHMIS.
<b>SARA Title III:</b> (Superfund Amendments & Reauthorization Act)	N/A
<b>OSHA:</b> (Occupational Safety & Health Administration)	Non hazardous
<b>TSCA:</b> (Toxic Substance Control Act)	Benzene C14-C30 alkyl derivatives appear on the Inventory of chemical Substances published by the U.S. EPA under authority of the TSCA.
<b>VOC:</b> (volatile Organic Compounds)	No Data.
<b>CPR:</b> (Canadian Controlled Products Regulations)	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.
<b>EINECS:</b> (European Inventory of Existing Commercial Chemical Substances)	No Data.
<b>DSL / NDSL:</b> (Canadian Domestic Substance List)(Non-Domestic Substance List)	No Data.
<b>CERCLA:</b> (Comprehensive Response Compensation & Liability Act)	No Data.
<b>IDL:</b> (Canadian Ingredient Disclosure List)	No Data.
<b>NFPA (HMIS) Rating:</b> (Hazardous Materials Identification System)	No Data.

## SECTION 16 – OTHER INFORMATION

Average Molecular Weight: 410 (typical); Viscosity (cSt @ 40°C) 70-80; Pour Point (°C) -40

The information contained herein is based on the data available to us and is believed to be correct. However, Nu-Calgon Wholesaler Inc. makes no warranty, expressed, or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Nu-Calgon Wholesaler Inc. assumes no liability for injury from the use of the product described herein.