



# MATERIAL SAFETY DATA SHEET

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## SECTION 1 - PRODUCT INFORMATION

**PRODUCT NAME:** NAXONAC® 690-50  
**CHEMICAL NAME:** Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)  
-omega-hydroxy-, branched phosphates  
**CAS NUMBER:** 68412-53-3  
**PRODUCT CODE:** 3012  
**MSDS NO.:** 1-13102

ISSUE DATE: 07/13/05  
SUPERSEDES: 06/02/05

## SECTION 2 - HAZARD IDENTIFICATION

**Appearance & Odor:** Slightly hazy, viscous liquid. Bland odor.

**Primary Routes of Exposure:** Skin, Eyes and Respiratory tract.

**Health Hazard Warnings:** DANGER! Corrosive. Causes severe burns to eyes and skin. Eye contact may cause blindness. Overexposure to vapors or mists is extremely destructive to the mucous membranes and upper respiratory tract. Reacts with metal to form flammable hydrogen gas.

**Inhalation:** Prolonged or repeated overexposure to vapors or mists can cause severe irritation to mucous membranes and upper respiratory tract.

**Skin Contact:** Can cause severe burns. Material is extremely destructive to skin. May aggravate existing dermatitis.

**Eye Contact:** Can cause burns unless immediately and thoroughly flushed with water. May cause permanent eye damage.

**Ingestion:** Material is harmful if swallowed. Can cause burns of the mouth and digestive tract.

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME</u>	<u>CAS REGISTRY NO.</u>	<u>PERCENT</u>
Ethoxylated nonyl phenol phosphate	68412-53-3	45 – 60
ester/Ethoxylated alcohol	9016-45-9	
Phosphoric acid	7664-38-2	< 5
Polyethylene glycol	25322-68-3	< 2
Water	7732-18-5	45 – 55

## SECTION 4 - FIRST AID MEASURES

**Eyes:** Immediately wash eyes with water for 15-20 minutes. Hold eyelids apart and roll eyes up and down to assure complete washing. Seek immediate medical attention.

**Skin:** Thoroughly flush the affected area with plenty of water for at least 15 minutes. Remove contaminated clothing and equipment. Seek medical attention.

**Inhalation:** Immediately move the patient to fresh air and call a physician. If breathing is difficult, give oxygen. If not breathing, begin artificial respiration.

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## SECTION 4 - FIRST AID MEASURES (CONT.)

**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.

**Other Specific Instructions:** In the event of exposure, seek medical attention immediately. Do not give chemical antidotes unless directed to do so by the physician.

## SECTION 5 - FIRE FIGHTING MEASURES

**Flash Point:** > 400 °F (open cup)

**Auto Ignition:** No data available

**Explosive Limits; UEL/LEL:** No data available

**Extinguishing Agents:** Use water spray, dry chemical, carbon dioxide, or foam extinguishing agents.

**Fire & Explosion Hazards:** As in any fire prevent human exposure to fire, smoke, fumes or products of combustion. Firefighters should wear recommended exposure control equipment including a self-contained breathing apparatus. Cool containers with water that are exposed to flames.

**Hazardous Combustion Products:** Thermal decomposition produces oxides of carbon and phosphorous.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Protective Equipment:** Appropriate protective equipment must be worn when handling a spill of **NAXONAC® 690-50**. See Section 8 - Exposure Control, for recommendations.

**Spill or Leak Information:** Absorb spill material with an inert material (i.e. vermiculite, soil, etc.). Sweep or scoop material into containers for disposal. Flush spill area with plenty of water to a chemical sewer. Collect water for proper disposal. Prevent discharge to bodies of water.

## SECTION 7 - HANDLING AND STORAGE

**Handling Conditions:** Prevent all skin and eye contact. Use local exhaust ventilation to prevent exposure to vapors and mists. Emptied container may retain product residues. Follow all warnings and precautions even after container is emptied.

**Storage Conditions:** Keep container tightly closed when not in use. Store in cool and well ventilated area. Do not store in unlined metal containers as the phosphoric acid will react with the metal to liberate flammable hydrogen gas.

## SECTION 8 - EXPOSURE CONTROL

**Exposure Limits:** 1.0 mg/m<sup>3</sup>; TWA (Phosphoric acid)

**Eye Protection:** Use chemical splash goggles. Wear face shield when transferring material.

**Skin Protection:** Skin contact with material should be minimized through the use of suitable impervious gloves. Butyl rubber or neoprene gloves are recommended. Use chemical resistant protective clothing or apron when handling this material.

**Respiratory Protection:** Use a NIOSH approved full-facepiece, air-purifying respirator with acid gas cartridges and the appropriate particulate prefilters for the gas/mists concentrations at the point of use.

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## SECTION 8 - EXPOSURE CONTROL (CONT.)

**Ventilation:** Good local exhaust ventilation should be provided.

**Other Protective Equipment:** Safety showers and eye wash stations where material is being handled. Wash hands and face before eating, using tobacco products or using the washroom. Smoke or eat only in designated areas. Take a warm shower and change clothing daily. Clothing and shoes used while handling this material should not be worn or taken away from the workplace.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Slightly hazy viscous liquid

**Odor:** Bland odor

**Melting Point:** Approximately 5 - 13 °C

**Boiling Point:** > 500 °F

**Evaporation Rate (butyl acetate=1):** No data available

**pH:** Approximately 2

**Vapor Pressure:** No data available

**Vapor Density (Air=1):** No data available

**Specific Gravity/Density:** 1.09 @ 20 °C

**Solubility in Water:** Soluble

**Viscosity:** 344 - 761 cps.

**Flash Point:** > 400 °F (open cup)

**Auto Ignition:** No data available

## SECTION 10 – STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of storage and handling.

**Incompatibility:** Avoid strong oxidizers, strong bases and metals. Phosphoric acid reacts with metals to liberate flammable hydrogen gas.

**Polymerization:** Not expected to occur.

**Decomposition:** When heated to decomposition, will emit toxic oxides of carbon and phosphorous.

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Acute Data:** The information shown in Section 3 - Hazard Identification, is based on toxicity profiles of similar materials or on the components present in this material.

**Sensitization:** Ethoxylated nonyl phenol phosphate ester is not known to be a sensitizer.

**Carcinogenicity/Mutagenicity:** Ethoxylated nonyl phenol phosphate ester is not known to be a human or animal carcinogen.

**Teratogenicity/Reproductive Toxicity:** Ethoxylated nonyl phenol phosphate ester is not known to cause teratogenicity or reproductive toxicity.

## SECTION 12 - ECOLOGICAL INFORMATION

**Ecological Toxicity:** No information available. The material should be considered to be toxic to fish.

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## SECTION 13 - DISPOSAL CONSIDERATIONS

**Waste Disposal:** This product if discarded as supplied is considered a hazardous waste as defined by RCRA. Characteristic; Corrosive, D002. Dispose of in accordance with local, state and federal regulations.

## SECTION 14 - TRANSPORT CONSIDERATIONS

**Shipping Description:** Corrosive Liquid, Acidic, Inorganic, N.O.S (Phosphoric acid)

**Hazard Class:** 8

**ID No.:** UN3264

**PG:** III

**Labels:** Corrosive

## SECTION 15 - REGULATORY CONSIDERATIONS

**OSHA Regulatory Status:** This product is a hazardous chemical under 29 CFR 1910.1200.

### SARA Title III

**Section 311/312:** This product is categorized as an immediate health hazard according to EPA under Section 311/312 of SARA.

**Section 313:** This product contains the following chemicals subject to 313 reporting:

None above De Minimis limit

**CERCLA:** Phosphoric acid 7664-38-2

**Pennsylvania Right-to-Know:** Phosphoric acid 7664-38-2 Environmental

**California Proposition 65:** This product may contain trace chemicals known to the State of California to cause cancer.

Acetaldehyde 75-07-0

1,4-Dioxane 123-91-1

Formaldehyde 50-00-0

This product may contain trace chemicals known to the State of California to cause cancer and reproductive effects.

Ethylene oxide, 75-21-8

### Chemical Control Law Status:

This product is in compliance with the inventory listing requirements of the Chemical Control Laws in the following countries: United States of America, Canada, Europe, Australia, Korea

**WHMIS Ingredient Disclosure List:** Phosphoric acid 7664-38-2

**HMIS Health Rating:** 3 **HMIS Fire Rating:** 0

**HMIS Physical Hazard Rating:** 0 **HMIS Other:** NA

## SECTION 16 - OTHER CONSIDERATIONS

Prepared by Regulatory Staff Phone No.: (814) 238-2424

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**Emergency Phone No.: CHEMTREC 800-424-9300**

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