

## SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

#### Product identifier

Chemical Name Poly(oxy-1,2-ethanediyl), -alpha.-(nonylphenyl)-.omega.-hydroxy-, phosphate

Trade name NAXONAC® 1595

CAS No. 51811-79-1 (alt: 68412-53-3)

#### Relevant identified uses of the substance or mixture and uses advised against

Identified use(s) Surfactant

Uses advised against None

#### Details of the supplier of the safety data sheet

Company Identification Nease Co. LLC  
10740 Paddys Run Road  
Harrison, OH 45030

Telephone (513) 738-1255

Telephone (Product Information) (888) 762-7373

Fax (513) 587-2828

E-Mail (competent person) techservice@neaseco.com

#### Emergency telephone number

Emergency Phone No. (513) 738-1255  
CHEMTREC 24 hr. (800) 424-9300

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Skin Corr. 2; Eye Dam. 1; Acute Tox., oral 4; Hazardous to aquatic environment , acute 2; Hazardous to aquatic environment , Long-term 2

#### Label elements

Hazard Symbol



#### DANGER

Signal Word(s)

Hazard Statement(s)

Harmful if swallowed.

Causes skin irritation

Causes serious eye damage.

Precautionary Statement(s)

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Seek medical treatment.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation (redness, rash, blistering) develops, get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

**Other hazards** Not classified as PBT or vPvB.

**Additional Information** None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredient(s)	%W/W	CAS No.	Hazard statement(s)
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, phosphate	90-100%	51811-79-1 (ALT: 68412-53-3)	Causes serious eye damage. Causes skin irritation.
orthophosphoric acid	<3%	7664-38-2	May be corrosive to metals. Causes severe skin burns and eye damage

**Additional Information** - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below.

- Ethylene Oxide (CAS No. 75-21-8) - May accumulate in the head space of drums.

## SECTION 4: FIRST AID MEASURES



### Description of first aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is labored, administer oxygen. If symptoms occur obtain medical attention.
Skin Contact	Wash affected skin with plenty of water. Remove contaminated clothing immediately. If irritation (redness, rash, blistering) develops, get medical attention.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
Ingestion	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Seek medical treatment.
<b>Most important symptoms and effects, both acute and delayed</b>	None
<b>Indication of any immediate medical attention and special treatment needed</b>	None

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing media

-Suitable Extinguishing Media	Extinguish with waterspray, dry chemical, sand or carbon dioxide. Water spray should be used to cool containers.
-Unsuitable Extinguishing Media	None anticipated.

### Special hazards arising from the substance or mixture

None anticipated.

### Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Avoid inhalation of vapours.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Put on protective equipment before entering danger area.

**Environmental precautions**

Do not allow to enter drains, sewers or watercourses.

**Methods and material for containment and cleaning up**

Contain spillages with sand, earth or any suitable adsorbent material. Transfer to a container for disposal or recovery. Wash the spillage area with water. If possible prevent water running into sewers.

**Reference to other sections  
Additional Information**

None  
None

## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling**

Keep container closed when not in use. Empty containers may contain residues. Do not use metal containers for storage as the phosphoric acid will react with the metal to liberate flammable hydrogen gas. Do not get in eyes. Do not breathe mist/vapours/spray. This product may contain trace levels of Ethylene oxide (CAS No. 75-21-8), which may accumulate in the head space of containers. Establish monitoring systems for exposure assessment to comply with OSHA standard 29 CFR 1910.1047.

**Conditions for safe storage, including any incompatibilities**

-Storage Temperature

Store in a cool/low-temperature, well-ventilated (dry) place.

-Incompatible materials

Attacks many materials and clothing. Keep away from oxidising agents. Keep container tightly closed and dry.

**Specific end use(s)**

Surfactant

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Occupational exposure limits**

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)		STEL (ppm)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Orthophosphoric acid	7664-38-2	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>	-----
Ethylene Oxide*	75-21-8	1 ppm	1 ppm	5 ppm	----	*

\* May accumulate in the headspace of drums. OSHA Action Level = 0.5 ppm as an 8-hour time-weighted average. Refer to OSHA 29 CFR 1910.1047.

**Recommended monitoring method**

NIOSH 7908 (Non-Volatile Acids); NIOSH 1614 (Ethylene Oxide)

**Exposure controls**

**Appropriate engineering controls**

Local exhaust required.

**Personal protection equipment**

Eye/face protection



The following to be used as necessary: Goggles giving complete protection to eyes. Full face shield.

Skin protection (Hand protection/ Other)



The following to be used as necessary: Gloves (Neoprene or Natural rubber). Chemical protection suit. Wear safety or chemical resistant shoes or boots. Check with protective equipment manufacturer's data.

Respiratory protection



No personal respiratory protective equipment normally required.

Thermal hazards

Use gloves with insulation for thermal protection, when needed.

**Environmental Exposure Controls**

Do not allow to enter drains, sewers or watercourses.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Viscous liquid
Colour	Amber.
Odour	Mild
Odour Threshold (ppm)	Not available.
pH	1.7-2.5
Melting Point (°C) / Freezing Point (°C)	Not available.
Boiling point/boiling range (°C):	>200 (392°F)
Flash Point (°C)	>93 (250 °F)
Evaporation rate (butyl acetate=1)	< 1
Flammability (solid, gas)	Not applicable.
Explosive limit ranges	Not available.
Vapour Pressure (Pascal)	Not available
Vapour Density (Air=1)	Not available.
Density (g/ml)	1.1-1.13 @ 25°C
Solubility (Water)	Soluble
Solubility (Other)	Not available.
Partition Coefficient (n-Octanol/water)	Not available.
Auto Ignition Temperature (°C)	Not available.
Decomposition Temperature (°C)	Not available.
Kinematic Viscosity (cSt) @ 40°C	Not available
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
<b>Other information</b>	Not available.

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable.
<b>Possibility of hazardous reactions</b>	None anticipated.
<b>Conditions to avoid</b>	Incompatible materials.
<b>Incompatible materials</b>	Keep away from oxidizing agents and Acids. Corrosive to Copper and Copper alloys
<b>Hazardous Decomposition Product(s)</b>	Carbon monoxide, Carbon dioxide

## SECTION 11: TOXICOLOGICAL INFORMATION

**Exposure routes:** Inhalation, Skin Contact, Eye Contact

**Substances in preparations / mixtures**

Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, phosphate (CAS No.51811-79-1)

By analogy with similar materials:

<b>Acute toxicity</b>	Oral: LD50 > 2500 mg/kg-bw
<b>Irritation/Corrosivity</b>	Causes severe damage to eyes and skin irritation.
<b>Sensitization</b>	No information available
<b>Repeated dose toxicity</b>	No information available

**Carcinogenicity** No information available

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

**Mutagenicity** No information available  
**Toxicity for reproduction** No information available

Orthophosphoric acid (CAS No. 7664-38-2)

**Acute toxicity** Oral: LD50 = 2600 mg/kg-bw  
 Inhalation: LC50 (1 hour) = 3846 mg/m<sup>3</sup> (rabbit; mice; guinea pigs)

**Irritation/Corrosivity** Corrosive (Skin and Eyes)  
**Sensitization** Not available.  
**Repeated dose toxicity** NOAEL (42-54 days) <250 mg/kg (rat)  
**Carcinogenicity** No information available

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

**Mutagenicity** There is no evidence of mutagenic potential.  
**Toxicity for reproduction** NOAEL Reproductive and developmental toxicity = 500 mg/kg (rat)

This product may contain trace levels of Ethylene oxide (CAS No. 75-21-8), which may accumulate in the head space of containers. Establish monitoring systems for exposure assessment to comply with OSHA standard 29 CFR 1910.1047. Ethylene oxide is a known human carcinogen by NTP and a suspected human carcinogen by ACGIH®.

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity**  
 Short term No data.  
 Long Term No data.

**Persistence and degradability** No data.  
**Bioaccumulative potential** No data.  
**Mobility in soil** No data.  
**Results of PBT and vPvB assessment** Not classified as PBT or vPvB.  
**Other adverse effects** None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste treatment methods** Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

**Additional Information** None known.

## SECTION 14: TRANSPORT INFORMATION

	Land transport (U.S. DOT)	Sea transport (IMDG)	Air transport (ICAO/IATA)
<b>UN number</b>	Not DOT regulated	3082	3082
<b>Proper Shipping Name</b>	Not DOT regulated	Environmentally Hazardous substance, liquid, N.O.S. (phosphate ester), MARINE POLLUTANT	Environmentally Hazardous substance, liquid, N.O.S. (phosphate ester),
<b>Transport hazard class(es)</b>	N/A	9	9
<b>Packing group</b>	N/A	III	III
<b>Hazard label(s)</b>	N/A	Marine pollutant	Class 9
<b>Environmental hazards</b>	None	YES	YES

Special precautions for user      None known.      None known.      None known.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not established.

## SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Canada Domestic Substance List (DSL) - Listed

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
Orthophosphoric acid	7664-38-2	<5%	5000

SARA 311/312 - Hazard Categories:

Fire   
  Sudden Release   
  Reactivity   
  Immediate (acute)   
  Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	-----	----

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.
None	-----	----

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 2, 3, 9, 14

Date of preparation: January 27, 2017

Additional Information:

**HEALTH** 2

**FLAMMABILITY** 1

**PHYSICAL HAZARD** 0

Personal Protection **B** [PPE icons]

HMIS (Hazardous Material Information System)

NFPA (National Fire Protection Association)

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