

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.
Most important symptoms and effects, both acute and delayed	None
Indication of any immediate medical attention and special treatment needed	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 ³	1 mg/m ³	3 mg/m ³	3 mg/m ³	—
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 (200 °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.
Other information	Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	None anticipated.
Conditions to avoid	Incompatible materials.
Incompatible materials	Keep away from oxidizing agents and Acids. Corrosive to Copper and Copper alloys
Hazardous Decomposition Product(s)	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:

Acute toxicity	Oral: LD50 > 2500 mg/kg-bw
Irritation/Corrosivity	Causes severe damage to eyes and skin irritation.
Sensitization	No information available
Repeated dose toxicity	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/m³ (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)
UN number	Not DOT regulated	3082	3082
Proper Shipping Name	Not DOT regulated	Environmentally Hazardous substance, liquid, N.O.S. (phosphate ester), MARINE POLLUTANT	Environmentally Hazardous substance, liquid, N.O.S. (phosphate ester),
Transport hazard class(es)	N/A	9	9
Packing group	N/A	III	III
Hazard label(s)	N/A	Marine pollutant	Class 9
Environmental hazards	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: 9

Date of preparation: May 12, 2020

Additional Information:

HMIS (Hazardous Material Information System)

NFPA (National Fire Protection Association)

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