

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name Phosphoric ester of 2-hydroxyethyl methacrylate

 Trade name
 Naxonac HP 1000

 CAS No.
 52628-03-2

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

****FOR RESEARCH AND DEVELOPMENT PURPOSES ONLY****

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Skin Corr. 1B; Eye Dam. 1; Acute Tox, oral 4; Sensitization, skin 1

Label elements

Hazard Symbol



Signal Word(s)

Precautionary Statement(s)

DANGER

Hazard Statement(s)

Harmful if swallowed

Causes severe skin burns and eye damage.

May cause an allergic skin reaction Causes serious eye damage.

May cause respiratory irritation

Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink, or smoke when using this product.

Use only outdoors or in well-ventillated area.

Contaminated work clothing must not be allowed out of workplace.

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. Call a

POISION CENTER. Get immediate medical attention.

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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)
Phosphoric ester of 2-hydroxyethyl methacrylate	80-90%	52628-03-2	
Orthophosphoric acid	<3%	7664-38-2	
2-hydroxyethyl methacrylate	<3%	868-77-9	

Additional Information - None

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. Chemical burns must be treated by physician. Wash contaminated

clothing before reuse.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. immediately

Ingestion Rinse mouth. Do NOT induce vomiting. Seek medical treatment.

Most important symptoms and effects, both

acute and delayed

Indication of any immediate medical attention and special treatment needed

Burning pain and severe corrosive skin damageCauses serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permananet eye damage including blindeness could result. May cuase respiratory irritation

Provide general support measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call and ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under

observation. Symptoms may be delayed

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Extinguish with waterspray, dry chemical, sand or carbon dioxide. Water -Suitable Extinguishing Media

spray should be used to cool containers.

-Unsuitable Extinguishing Media Do NOT use water jet.

Special hazards arising from the substance or

mixture

Gases hazarodus to health may be formed.

Advice for fire-fighters Fire fighters should wear complete protective clothing including self-

contained breathing apparatus. Avoid inhalation of vapours.

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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. Do not use metal containers

for spilled liquid. Wash the spillage area with water. If possible prevent water

running into sewers.

Reference to other sections For disposal see section 13 of SDS

Additional Information 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, on skin, or on clothing.

Conditions for safe storage, including any incompatibilities

-Storage Temperature This product should be stored at a temperature greater than: 20°C (68°F).

-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

		LTEL (8 hr TWA ppm)		STEL (ppm)		
SUBSTANCE.	CAS No.	PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note:
Orthophosphoric acid	7664-38-2	1 mg/m³	1 mg/m³ ^(T)	3 mg/m³	3 mg/m³	

Recommended monitoring method

Exposure controls

NIOSH 7908 (Non-Volatile Acids)

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.

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Explosive limit ranges

Naxonac HP 1000

Environmental Exposure Controls

Do not allow to enter drains, sewers or watercourses.

Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Liquid
Colour Clear / Yellow
Odour Acrylic
Odour Threshold (ppm) Not available.

PH (Value)

Mot available

Not available

Not available

Not available

Not available

Not available

> 40°F (>4.44°C

> 212°F (>100°C)

Flash Point (°C)

Flash Point (°C)

Evaporation rate

Not available

Flammability (solid, gas)

Not available

Vapour Pressure (Pascal) <0.0000001 kPa @ 25°c.

Vapour Density (Air=1)

Density (g/ml)

Solubility (Water)

Solubility (Other)

Partition Coefficient (n-Octanol/water)

Auto Ignition Temperature (°C)

Decomposition Temperature (°C)

Not available.

Not available.

Not available.

Not available.

Kinematic Viscosity (cSt) @ 40°C Not available.

Explosive properties Not explosive.

Oxidising properties Not available

Other information Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactionsNone anticipated.Conditions to avoidIncompatible materials.

Incompatible materials Reacts with -oxidizers, acids, and bases

Hazardous Decomposition Product(s) Carbon monoxide, Carbon dioxide, phosphorous compounds

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Substances in preparations / mixtures

Phosphoric ester of 2-hydroxyethyl methacrylate (CAS No. 52628-03-2) (By analogy with similar materials)

Acute toxicity Oral: LD50 510 mg/kg-bw

Irritation/Corrosivity Causes serious eye damage. Causes skin burns/damage.

SensitizationMay cause allergic skin reactionRepeated dose toxicityNo information availableCarcinogenicityNo 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)

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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 = 500 mg/kg (rat)

2-hydroxyethyl methacrylate (CAS No. 868-77-9)

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 Not available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity - Substances in preparations / mixtures

Phosphoric ester of 2-hydroxyethyl methacrylate (CAS No. 52628-03-2) (By analogy with similar materials)

Short term LC50 (96 hour): 22000 mg/L (*fish*)

Long Term

No data.

Persistence and degradability

Bioaccumulative potential

Mobility in soil

Results of PBT and vPvB assessment

Other adverse effects

No data.

Not available.

None known.

2-hydroxyethyl methacrylate (CAS No. 868-77-9) (By analogy with similar materials)

Short term LC50 (96 hour): 213-242 mg/L (Pimephales promelas)

Long Term No data.

Persistence and degradability No data.

Bioaccumulative potential No data.

Mobility in soil NPartition coefficient N-octanol/water (log Kow) : 0.47

Results of PBT and vPvB assessment Not available.

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.

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SECTION 14: TRANSPORT INFORMATION

Sea transport Air transport Land transport (IMDG) (ICAO/IATA) (U.S. DOT) **UN** number 3265 3265 3265 **Proper Shipping Name** Corrosive Liquid, Acidic, Corrosive Liquid, Acidic, Corrosive Liquid, Acidic, Organic, N.O.S Organic, N.O.S Organic, N.O.S (Phosphoric acid ester, (Phosphoric acid ester, (Phosphoric acid ester, Phosphoric acid) Phosphoric acid) Phosphoric acid) Transport hazard class(es) 8 8 8 Packing group Ш Ш Ш Hazard label(s) Corrosive Corrosive Corrosive **Environmental hazards** No No No 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	<5%	7664-38-2	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: 1-16.

Date of preparation: March 11, 2015

Additional Information:



HMIS (Hazardous Material Information System)



NFPA (National Fire Protection Association)

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