NAXONAC® 690-50

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Mixture
Trade name	NAXONAC® 690-50
CAS No.	Mixture

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	Catexel Nease 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@catexel.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. 1C; Eye Dam. 1; Met. Corr. 1

Label elements

Hazard Symbol

Signal Word(s) — **DANGER**

Hazard Statement(s) — Causes severe skin burns and eye damage.
May be corrosive to metals.

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 — Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
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)
Ethoxylated nonyl phenol phosphate ester/Ethoxylated alcohol	45-50%	152143-22-1 127087-87-0	Causes serious eye damage. Causes skin irritation. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Orthophosphoric acid	<5%	7664-38-2	May be corrosive to metals. Causes severe skin burns and eye damage.
Polyethylene glycol	<2%	25322-68-3	May cause respiratory irritation.
Water	45-50%	7732-18-5	Not applicable.

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. 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	None
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. 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/m³	1 mg/m³ (T)	3 mg/m³	3 mg/m³	———
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	Hazy
Odour	Bland
Odour Threshold (ppm)	Not available.
pH (Value)	1.5-2.5
Melting Point (°C) / Freezing Point (°C)	≈ 13
Boiling point/boiling range (°C):	>260 (500 °F)
Flash Point (°C)	>204 (400 °F)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Explosive limit ranges	Not available.
Vapour Pressure (Pascal)	Not available.
Vapour Density (Air=1)	Not available.
Density (g/ml)	≈1.13 @ 20°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	977- 1396 (1104-1578 cps)
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 Reacts with -oxidizers, reducing agents, and strong 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

Polyoxyethylene monooleyl ether phosphate (CAS No. 152143-22-1) - By analogy with similar materials:

Acute toxicity Oral: LD50 = 4450 mg/kg-bw

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

Sensitization It is not a skin sensitiser.

Repeated dose toxicity NOAEL (84 days) < 2.0% (dog)
NOAEL (84 days) < 2.0% (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 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 = 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

Toxicity - Substances in preparations / mixtures

Polyoxyethylene monooleyl ether phosphate (CAS No. 152143-22-1) - By analogy with similar materials:

Short term	LC50 (96 hour): 81 mg/L (*Danio rerio*)
Long Term	No data.
Persistence and degradability	Not readily biodegradable.
Bioaccumulative potential	No data.
Mobility in soil	Not determined
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.

SECTION 14: TRANSPORT INFORMATION

	Land transport (U.S. DOT)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	3264	3264	3264
Proper Shipping Name	Corrosive Liquid, Acidic, Inorganic, N.O.S (Phosphoric acid)	Corrosive Liquid, Acidic, Inorganic, N.O.S (Phosphoric acid)	Corrosive Liquid, Acidic, Inorganic, N.O.S (Phosphoric acid)
Transport hazard class(es)	8	8	8
Packing group	III	III	III
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**: On active TSCA list**

Canada (DSL/NDSL)

- Listed DSL**:** Ethoxylated alcohol**;** Orthophosphoric acid; Polyethylene glycol

- Listed NDSL: Ethoxylated nonyl phenol phosphate ester

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: 1

Date of preparation: December 14, 2023

Additional Information:

HMIS (Hazardous Material Information System)

NFPA (National Fire Protection Association)

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