

SAFETY DATA

1. Identification

Poseidon SAS **Product identifier**

Other means of identification

RD01426 **SDS Number**

Surfactant blend for Agrochemicals Recommended use

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information Company name Hakl & Associates 30975 475th Avenue **Address** Alcester, SD 57001

Main Telephone Number

www.poseidonsurf.company Website

E-mail

Emergency #: CHEMTREC Emergency #: CHEMTREC

2. Hazard(s) identification

Physical hazards Not classified.

Category 4 **Health hazards** Acute toxicity, oral

> Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 1 Hazardous to the aquatic environment, Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements

Environmental hazards



Signal word Danger

Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Toxic to aquatic life with **Hazard statement**

long lasting effects.

Precautionary statement

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid Prevention

release to the environment. Wear eye protection/face protection. Wear protective gloves.

Response If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with

plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before

reuse. Collect spillage.

Store away from incompatible materials. Store in a well-ventilated place. Keep container tightly Storage

closed. Store locked up. Store in accordance with local, regional, national, and international

regulations.

Dispose of contents and container in accordance with local, regional, national, and international Disposal

regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Material name: Poseidon SAS SDS US 1/9

RD01426 Version #: 01 Issue date: 04-21-2020

Supplemental information

60 - 100% of the mixture consists of component(s) of unknown acute dermal toxicity. 60 - 100% of the mixture consists of component(s) of unknown acute inhalation toxicity. 60 - 100% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 10 - 20% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Nonylphenol, ethoxylated		127087-87-0	60 - 90
Oleic Acid		112-80-1	0 - 30
Propylene Glycol		57-55-6	0 - 10
Polypropylene Glycol		25322-69-4	< 1
Other components below report	able levels		0 - 10

Residuals

Chemical name	Common name and synonyms	CAS number	%
Ethylene Oxide		75-21-8	<= 0.001

Composition comments

Occupational Exposure Limits for residuals are listed in Section 8.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Ingestion

Get medical advice/attention if you feel unwell.

Most important

General information

symptoms/effects, acute and

delayed

vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Foam. Powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for clean-up

Absorb/clean with appropriate and compatible material. Stop flow of material if without risk. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

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Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not get this material in contact with eyes. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

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8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US.	OSHA Specifically Regulated Substa	nces (29 CFR 1910.1001-1050)
_		_

5 ppm	
1 ppm	
Value	
1 ppm	
Value	
9 mg/m3	
5 ppm	
0.18 mg/m3	
0.1 ppm	
EEL) Guides	
Value	Form
10 mg/m3	Aerosol.
10 mg/m3	Aerosol.
	Value 1 ppm Value 9 mg/m3 5 ppm 0.18 mg/m3 0.1 ppm EEL) Guides Value 10 mg/m3

Biological limit values

ACGIH B	iological	Exposure	Indices
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Residuals	Value	Determinant	Specimen	Sampling Time
Ethylene Oxide (CAS 75-21-8)	5 μg/g	S-(2-hydroxyet hyl) mercapturic acid (HEMA)	Creatinine in urine	*
	5000 pmol/g	N-(2-hydroxyet hyl)-valine (HEV) hemoglobin adducts	Hemoglobin adducts	*

^{* -} For sampling details, please see the source document.

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Material name: Poseidon SAS

Individual protection measures, such as personal protective equipment

General It is recommended that users of this product perform a risk assessment to determine the

appropriate PPE.

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash

work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Clear Physical state Liquid. Liquid. **Form** Color Light Yellow Odor Not available. Odor threshold Not available. pН Not available. Melting point/freezing point Not available.

Initial boiling point and boiling

Not available.

range

Flash point > 212.0 °F (> 100.0 °C) Pensky-Martens Closed Cup

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Explosive propertiesNot explosive. **Oxidizing properties**Not oxidizing.

pH in aqueous solution 4 - 6 (1% in 50:50 Water:IPA)

Specific gravity 1.02 - 1.03 @ 25°C

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Avoid temperatures exceeding the decomposition temperature. Contact with incompatible

materials.

Strong oxidizing agents.

Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious eye damage.

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause

72 mg/kg

redness and pain.

Information on toxicological effects

Acute toxicity Harmful if swallowed.

Components Species Test Results

Oleic Acid (CAS 112-80-1)

<u>Acute</u>

Dermal

LD50 Guinea pig > 3000 mg/kg

Oral

LD50 Rat 74 g/kg

Propylene Glycol (CAS 57-55-6)

<u>Acute</u>

Oral

LD50 Rat 30 g/kg

Residuals Species Test Results

Ethylene Oxide (CAS 75-21-8)

<u>Acute</u>

Inhalation

LC50 Dog 973 ppm, 4 Hours

Oral

LD50 Rat

Skin corrosion/irritation

Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylene Oxide (CAS 75-21-8) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Ethylene Oxide (CAS 75-21-8) Cancel

US. National Toxicology Program (NTP) Report on Carcinogens

Ethylene Oxide (CAS 75-21-8) Known To Be Human Carcinogen.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Product Species Test Results

Poseidon SAS

Aquatic

LC50 Fish Fish 1362.5958 mg/l, 96 hours estimated

Components **Species Test Results**

Oleic Acid (CAS 112-80-1)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 205 mg/l, 96 hours

Polypropylene Glycol (CAS 25322-69-4)

Aquatic

Fish LC50 Inland silverside (Menidia beryllina) 650 mg/l, 96 hours

Propylene Glycol (CAS 57-55-6)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) > 10000 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) 710 mg/l, 96 hours Residuals **Species Test Results**

Ethylene Oxide (CAS 75-21-8)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 73 - 96 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Propylene Glycol -0.92

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

UN number UN3082

Environmentally hazardous substance, liquid, n.o.s. (Nonylphenol, ethoxylated), MARINE **UN proper shipping name**

POLLUTANT

Transport hazard class(es)

Class 9 Subsidiary risk

Material name: Poseidon SAS SDS US Label(s) 9
Packing group

Environmental hazards

Marine pollutant Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions 8, 146, 335, IB3, T4, TP1, TP29

Packaging exceptions 155
Packaging non bulk 203
Packaging bulk 241

Not regulated by DOT in containers 119 gallons or less.

IATA

UN number UN3082

UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Nonylphenol, ethoxylated)

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III
Environmental hazards Yes
ERG Code 9L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

IMDG

UN number UN3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nonylphenol, ethoxylated),

MARINE POLLUTANT

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III

Environmental hazards

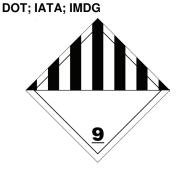
Marine pollutant Yes EmS F-A, S-F

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code



Material name: Poseidon SAS

Marine pollutant



General information IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA) All components of the mixture on the TSCA 8(b) inventory are designated

"active".

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

TSCA Chemical Action Plans, Chemicals of Concern

Nonylphenol, ethoxylated (CAS 127087-87-0) Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEs) Action

Plan

CERCLA Hazardous Substance List (40 CFR 302.4)

Ethylene Oxide (CAS 75-21-8) Listed.

SARA 304 Emergency release notification

ETHYLENE OXIDE (CAS 75-21-8) **10 LBS** OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Ethylene Oxide (CAS 75-21-8) Cancer

Reproductive toxicity

Mutagenicity

Central nervous system Skin sensitization Skin irritation Eve irritation

respiratory tract irritation

Acute toxicity Flammability

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical n	ame	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)

Ethylene Oxide 75-21-8 10 1000 Yes

SARA 311/312 Hazardous

Classified hazard

chemical

Acute toxicity (any route of exposure)

categories Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Glycol Ethers as Defined by EPA (65 FR 47342 Aug 2, 2000)	, Mixture	1 - < 3	
Poly(oxy-1,2-ethanediyl), ω-(4-nonylphenyl)-ω-hydroxy-, branched	127087-87-0	60 - 90	
Ethylene Oxide	75-21-8	<= 0.001	

Material name: Poseidon SAS SDS US

US state regulations

California Proposition 65



WARNING: This product can expose you to Ethylene Oxide, which is known to the State of California to cause

On inventory (yes/no)*

Yes

Yes

cancer and birth defects or other reproductive harm. For more information go

to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Ethylene Oxide (CAS 75-21-8) Listed: July 1, 1987

California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene Oxide (CAS 75-21-8) Listed: August 7, 2009

California Proposition 65 - CRT: Listed date/Female reproductive toxin

Ethylene Oxide (CAS 75-21-8) Listed: February 27, 1987

California Proposition 65 - CRT: Listed date/Male reproductive toxin

Inventory name

Ethylene Oxide (CAS 75-21-8) Listed: August 7, 2009

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Ethylene Oxide (CAS 75-21-8)

Nonylphenol, ethoxylated (CAS 127087-87-0)

International Inventories

Taiwan

Country(s) or region

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Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Taiwan Chemical Substance Inventory (TCSI) United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

Issue date 04-21-2020

Version # 01

Health: 3 HMIS® ratings

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 3

Flammability: 1 Instability: 0

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be reliable. Poseidon SAS, provides no warranties, either expressed or implied and assumes no responsibility for accuracy or completeness of the data contained herein. This information is offered for your information, consideration, and investigation. You should satisfy yourself that you that you have all the current data relevant to your particular use. Poseidon SAS, knows of no medical condition, other than noted on this Safety Data Sheet, which are generally recognized as being aggravated by exposure to this

product.

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^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).