

Safety Data Sheet acc. to OSHA HCS

Printing date 07/11/2023

Reviewed on 02/24/2023

1 Identification

- **Product identifier**
- **Trade name:** Pearl Seal
- **Article number:** 98160515
- **Application of the substance / the mixture** Surface active agent
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Nextzett GmbH
An der Höhe 15
D-51674 Wiehl-Marienhagen
Deutschland
Tel: +49 2261 6095433
Fax: +49 2261 6095429
Email: info@nextzett.de / www.nextzett.de
- **Information department:** Chemtel
- **Emergency telephone number:** 1-800-255-3924 (USA AND CANADA)

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Carcinogenicity 1A H350 May cause cancer.

- **Label elements**
- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS02 GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
ethanol
- **Hazard statements**
Flammable liquid and vapor.
May cause cancer.
- **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.

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Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed or concerned: Get medical advice/attention.
In case of fire: Use CO₂, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 67-63-0	propan-2-ol	≥2.5-<10%
CAS: 64-17-5	ethanol	≥2.5-<10%
CAS: 34590-94-8	Dipropylene glycol monomethyl ether	<2.5%

· **Verordnung (EG) Nr. 648/2004 über Detergenzien / Kennzeichnung der Inhaltsstoffe**

amphoteric surfactants	<5%
perfumes (LIMONENE), preservation agents (SODIUM PYRITHIONE, BENZISOTHIAZOLINONE)	

4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.

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- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

CAS: 67-63-0	propan-2-ol	400 ppm
CAS: 64-17-5	ethanol	1,800 ppm
CAS: 34590-94-8	Dipropylene glycol monomethyl ether	150 ppm
CAS: 107-21-1	ethanediol	30 ppm
CAS: 78-93-3	butanone	200 ppm
CAS: 5989-27-5	(R)-p-mentha-1,8-diene	15 ppm
CAS: 556-67-2	octamethylcyclotetrasiloxane	30 ppm
CAS: 540-97-6	Dodecamethylcyclohexasiloxan	150 mg/m ³
CAS: 112-31-2	decanal	1.8 ppm

· **PAC-2:**

CAS: 67-63-0	propan-2-ol	2000* ppm
CAS: 64-17-5	ethanol	3300* ppm
CAS: 34590-94-8	Dipropylene glycol monomethyl ether	1700* ppm
CAS: 107-21-1	ethanediol	150 ppm
CAS: 78-93-3	butanone	2700* ppm
CAS: 5989-27-5	(R)-p-mentha-1,8-diene	67 ppm
CAS: 556-67-2	octamethylcyclotetrasiloxane	68 ppm
CAS: 540-97-6	Dodecamethylcyclohexasiloxan	1,700 mg/m ³
CAS: 112-31-2	decanal	19 ppm

· **PAC-3:**

CAS: 67-63-0	propan-2-ol	12000** ppm
CAS: 64-17-5	ethanol	15000* ppm
CAS: 34590-94-8	Dipropylene glycol monomethyl ether	9900** ppm
CAS: 107-21-1	ethanediol	900 ppm
CAS: 78-93-3	butanone	4000* ppm

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CAS: 5989-27-5	(R)-p-mentha-1,8-diene	(Contd. of page 3) 170 ppm
CAS: 556-67-2	octamethylcyclotetrasiloxane	130 ppm
CAS: 540-97-6	Dodecamethylcyclohexasiloxan	9,900 mg/m ³
CAS: 112-31-2	decanal	120 ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.**
Protect against electrostatic charges.
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Storage class:** 10
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.

Control parameters

- **Components with limit values that require monitoring at the workplace:**

CAS: 67-63-0 propan-2-ol

PEL	Long-term value: 980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 400 ppm Long-term value: 200 ppm
	BEI, A4

CAS: 64-17-5 ethanol

PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1000 ppm
	A3

CAS: 34590-94-8 Dipropylene glycol monomethyl ether

PEL	Long-term value: 600 mg/m ³ , 100 ppm Skin
REL	Short-term value: 900 mg/m ³ , 150 ppm Long-term value: 600 mg/m ³ , 100 ppm Skin

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TLV Long-term value: 50 ppm

· Ingredients with biological limit values:

CAS: 67-63-0 propan-2-ol

BEI 40 mg/L
Medium: urine
Time: end of shift at end of workweek
Parameter: Acetone (background, nonspecific)

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

Suitable chemical resistant protective gloves (EN374) also at prolonged, direct contact (recommended protection index 6, corresponding 480 minutes permeation time according to EN 374) e.g. from nitril gloves (0,33-0,5 mm) Polyvinylchloride (1mm).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

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9 Physical and chemical properties

· Information on basic physical and chemical properties ·

General Information

· Appearance:

Form:	Fluid
Color:	Light blue
Odor:	Fruit-like
Odor threshold:	Not determined.

· pH-value at 20 °C (68 °F): 6.5

· Change in condition

Melting point/Melting range:	4 °C (39.2 °F)
Boiling point/Boiling range:	100 °C (212 °F)

· Flash point: 43 °C (109.4 °F)

· Flammability (solid, gaseous): Flammable.

· Decomposition temperature: Not determined.

· Ignition temperature: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

· Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg)

· Density at 20 °C (68 °F): 0.984 g/cm³ (8.21148 lbs/gal)

· Relative density: Not determined.

· Vapor density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with

Water: Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

· Solvent content:

Organic solvents:	12.0 %
VOC content:	12.05 %
	118.6 g/l / 0.99 lb/gal
VOC (EC)	12.05 %

Solids content: 1.8 %

· Other information: No further relevant information available.

10 Stability and reactivity

· Reactivity: No further relevant information available.

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- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

CAS: 67-63-0 propan-2-ol

Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

CAS: 64-17-5 ethanol

Oral	LD50	7,060 mg/kg (rat)
Inhalative	LC50/4 h	20,000 mg/l (rat)

CAS: 34590-94-8 Dipropylene glycol monomethyl ether

Oral	LD50	5,135 mg/kg (rat)
Dermal	LD50	>19,000 mg/kg (rab)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

CAS: 67-63-0	propan-2-ol	3
CAS: 64-17-5	ethanol	1
CAS: 5989-27-5	(R)-p-mentha-1,8-diene	3
CAS: 123-35-3	Myrcene	2B
CAS: 3844-45-9	Triphenylmethan-Farbstoff, Dihydrogen(ethyl)[4-[4-[ethyl(3-sulfonatobenzyl)]amino]-2'-sulfonatobenzhydryliden]cyclohexa-2,5-dien-1-yliden](3-sulfonatobenzyl)ammonium, Dinatriumsalz	3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available. ·
- **Persistence and degradability**
The surfactants contained in the product correspond to the legislation on the environmental compatibility of detergents and are biodegradable.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available. ·
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|---|-----------------|
| · UN-Number | |
| · DOT, IMDG, IATA | not regulated |
| · UN proper shipping name | |
| · DOT, IMDG, IATA | not regulated |
| · Transport hazard class(es) | |
| · DOT, ADN, IMDG, IATA | |
| · Class | not regulated |
| · Packing group | |
| · DOT, IMDG, IATA | not regulated |
| · Environmental hazards: | Not applicable. |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable. |

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· UN "Model Regulation": not regulated

15 Regulatory information

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

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

CAS: 67-63-0 propan-2-ol

CAS: 107-21-1 ethanediol

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

CAS: 107-21-1 ethanediol

· Proposition 65

· Chemicals known to cause cancer:

CAS: 123-35-3 Myrcene

· Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

CAS: 64-17-5 ethanol

CAS: 107-21-1 ethanediol

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 78-93-3 butanone

I

· TLV (Threshold Limit Value)

CAS: 67-63-0 propan-2-ol

A4

CAS: 64-17-5 ethanol

A3

CAS: 107-21-1 ethanediol

A4

CAS: 80-56-8 alpha-Pinene

A4

· NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.

· National regulations:

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

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Other regulations, limitations and prohibitive regulations

Flash point > 35°C, the product itself does not sustain combustion according to the manual on tests and criteria.

Besonders besorgniserregende Stoffe (SVHC) gemäß REACH, Artikel 57 None

of the ingredients is listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Contact:

Date of preparation / last revision 02/24/2023

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC:

Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flammable Liquids 3: Flammable liquids - Category 3

Carcinogenicity 1A: Carcinogenicity - Category 1A

*** Data compared to the previous version altered.**