

# Safety Data Sheet

Revision Date: 02/07/25  
OC-SFD-0102

## Section 1: Identification

**Product Name** AeroPel APW100, Part A  
**Company** Oceanit Laboratories, Inc.  
828 Fort Street Mall Suite 600  
Honolulu, HI, USA 96817  
**Phone Number** +1-808-531-3017  
**Emergency Phone Number** +1-808-531-3017  
**Contact Hours** Monday – Friday  
1:00 PM – 10:00 PM ET  
**Recommended Use** Nanocomposite Protective Layer

## Section 2: Hazard(s) Identification

### Classification of the Substance or Mixture

Not a hazardous substance or mixture.

### GHS Label Elements, Including Precautionary Statements

None.

### Other Hazards

Thermal decomposition can lead to the release of toxic and corrosive gases.

## Section 3: Composition/Information on Ingredients

Pure Substance/Mixture Mixture

Chemical Name	Concentration	CAS
Water	ca.60-75%	7732-18-5
Isopropanol	<1%	67-63-0
Methyl ethyl ketone	< 1%	78-93-3
Anionomer (Proprietary)	15-30%	N/A
Rheology Modifier (Proprietary)	1-5%	N/A

### Trade Secret Statement (OSHA §1910.1200(i))

The specific chemical identities and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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## Section 4: First-Aid Measures

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### General First-Aid Measures

Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately. If possible, show this sheet; if not available, show packaging label.

### Eyes

Rinse/flush exposed eye(s) immediately using plenty of water. If eye irritation persists, get medical attention.

### Skin

Immediately wash affected area with soap and plenty of water, and rinse thoroughly. If skin irritation persists, get medical attention. Wash contaminated clothing before reusing.

### Ingestion

Do NOT induce vomiting. Rinse your mouth with water. Drink 1 or 2 glasses of water. If symptoms persist, get medical attention.

### Inhalation

Move to fresh air.

### Most Important Symptoms and Effects, both Acute and Delayed

Inhalation exposure may cause: cough, headache, nausea.

Effects of skin contact may include: redness, irritation.

Effects of eye contact may include: irritation.

Symptoms of ingestion may include: nausea, vomiting, abdominal pain.

### Indication of Immediate Medical Attention and Special Treatment Needed

None. If seeking medical attention, provide SDS documents to physician.

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## Section 5: Fire-Fighting Measures

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### Suitable Extinguishing Agents

Use dry chemicals, powder, carbon dioxide, water spray, or foam.

### Unsuitable Extinguishing Agents

None.

### Special Hazards Arising from the Substance or Mixture

This product is not flammable or explosive. In case of fire, hazardous decomposition products may be produced including: gaseous hydrogen fluoride (HF), fluorophosgene, monomer vapor, carbon oxides (CO, CO<sub>2</sub>).

### Unusual Fire and Explosion Hazards

Material can splatter above 100 °C/212 °F. Dried products can burn.

### Advice for Firefighters



Evacuate personnel to safe areas. Approach from upwind. Protect intervention teams with water spray as they approach the fire. Use water spray to cool containers, exposed surfaces, and surroundings. Keep product and empty container away from heat and sources of ignition. Exercise caution when fighting any chemical fire.

### **Protective Equipment**

Do not enter the fire area without proper personal protective equipment, including respiratory protection. Wear self-contained breathing apparatus/respirator. Wear fully protective impervious suit. When intervention in proximity, wear acid resistant suit.

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## **Section 6: Accidental Release Measures**

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### **Personal Precautions, Protective Equipment, and Emergency Procedures**

In case of a spill or leak, always shut off any sources of ignition, ventilate the area, and exercise caution. Keep away from open flames, hot surfaces, and ignition sources. Ensure adequate ventilation. Equip cleanup crew with proper protection. For personal protection, see section 8. Keep unprotected individuals away. Keep people away from and upwind of spill/leak. Material can create slippery conditions. Sweep up to prevent slipping hazard.

### **Environmental Precautions**

Do not allow material to be released to the environment. Prevent from entering drains, sewer, or waterway. Notify authorities if liquid enters sewers or public waters.

### **Procedures and Materials Used for Containment and Cleanup**

See section 7 for information on safe handling. See section 8 for information on personal protective equipment. Prevent further leakage or spillage if safe to do so. Ensure adequate ventilation. Clean up any spills as soon as possible, using an inert absorbent material to soak it up (dry sand, Earth). Shovel the material into a waste disposal container. Keep in suitable, closed containers for disposal. Dispose of contaminated material as waste, according to section 13.

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## **Section 7: Handling Storage**

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### **Precautions for Safe Handling**

Use personal protective equipment and exposure controls given in section 8. Avoid contact with eyes, skin and clothing. Do not breathe of vapor, mist, or gas. Keep container tightly sealed. Keep away from heat and sources of ignition. To avoid thermal decomposition, do not overheat. Take measures to prevent the buildup of electrostatic charge. Clean and dry piping circuits and equipment before any operations. Ensure all equipment is electrically grounded before beginning transfer operations. Ensure good ventilation at the workplace. Wash contaminated clothing before reuse. Wash hands after handling.

### **Conditions for Safe Storage, Including any Incompatibilities**

Keep container tightly sealed. Recommended storage temperature: 5-40°C. Do not freeze. Keep away from heat, sources of ignition, combustible materials, and incompatible products. Provide tight electrical equipment well protected against corrosion.

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## **Section 8: Exposure Controls/Personal Protection**

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## Control Parameters

Exposure limits are listed below, if they exist

## Exposure Limit Values

### Isopropanol

- US. ACGIH Threshold Limit Values 03 2013  
time weighted average = 200 ppm
- US. ACGIH Threshold Limit Values 03 2013  
Short term exposure limit = 400 ppm

### Methyl ethyl ketone

- US. ACGIH Threshold Limit Values 03 2013  
time weighted average = 200 ppm
- US. ACGIH Threshold Limit Values 03 2013  
Short term exposure limit = 300 ppm

### Hydrogen fluoride anhydrous

- US. ACGIH Threshold Limit Values 03 2013  
time weighted average = 0.5 ppm  
Remarks: as F
- US. ACGIH Threshold Limit Values 03 2013  
Ceiling Limit Value = 2 ppm  
Remarks: as F
- US. ACGIH Threshold Limit Values 03 2013  
Remarks: as F, Can be absorbed through skin.

### Carbonyl difluoride

- US. ACGIH Threshold Limit Values 03 2013  
time weighted average = 2 ppm
- US. ACGIH Threshold Limit Values 03 2013  
Short term exposure limit = 5 ppm

## Exposure Controls

### Appropriate Engineering Controls

General industrial hygiene and safety practice. Keep away from food, beverages, and feed sources. Wash hands before breaks and at the end of work. Avoid all unnecessary exposure. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin. Emergency eyewash fountains and safety showers should be available in the immediate vicinity of use/handling or any potential exposure. Maintain an ergonomically appropriate working environment.

Apply technical measures to comply with the occupational exposure limits. Use process enclosures, local exhaust ventilation, or other appropriate engineering. Use a properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

### Individual Protection Measures

**Eye/Face Protection**

Safety glasses with side-shields.

**Skin Protection**

Nitrile gloves.

**Body Protection**

Long sleeved, impervious clothing. Safety shoes.

**Respiratory Protection**

No personal respiratory protective equipment is normally required, use respirator when performing operations involving potential exposure to vapor of the product. Where vapors or mists may occur, wear a properly fitted NIOSH approved (or equivalent) half-mask, air purifying respirator. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) organic vapor filters. Use only respiratory protection that conforms to international/national standards.

**Control of Environmental Exposure**

Do not let the product enter drains. Dispose of rinse water in accordance with local and national regulations.

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## Section 9: Physical and Chemical Properties

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**Information on Basic Physical and Chemical Properties**

## Appearance

- Physical State
- Color

Aqueous Dispersion

Opaque

## Odor

Amine-Like

## Odor Threshold

No data available

## pH

7.5-9

## Melting Point/Freezing Point

0 °C

## Initial Boiling Point and Boiling Range

No data available

## Flash Point

No data available

## Evaporation Rate

No data available

## Flammability (Solids, Gas)

Not flammable

## Explosive Properties

- Lower Explosion Limit
- Upper Explosion Limit

No data available

No data available

## Vapor Pressure

No data available

## Vapor Density

No data available

## Density

1.1-1.2 g/cm<sup>3</sup>

## Water Solubility

Miscible

## Partition Coefficient: n-octanol/water

No data available

## Auto-ignition Temperature

No data available

## Decomposition Temperature

&gt;200 °C

## Viscosity

200 – 1000 cP

## Oxidizing Properties

Non-oxidizer

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## Section 10: Stability and Reactivity

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**Reactivity**

No dangerous reaction is known under conditions of normal use.

**Chemical Stability**

Stable under recommended storage conditions (see section 7 for instructions).

**Possible Hazardous Reactions**

No dangerous reactions known under conditions of normal use.

**Conditions to Avoid**

To avoid thermal decomposition, do not overheat. Keep away from flames and sparks.

**Incompatible Materials**

Lewis acids (Friedel-Crafts) above 100 °C, aluminum and magnesium in powder form above 100 °C.

**Hazardous Decomposition Products**

Gaseous hydrogen fluoride (HF), fluorophosgene, monomer vapor. In the event of fire, see section 5.

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## Section 11: Toxicological Information

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**Information on Toxicological Effects****Acute Toxicity**

No data available.

**Chronic Toxic Effects**

No data available.

**Carcinogenic Effects**

No data available.

**Mutagenic Effects**

No data available.

**Teratogenic Effects**

No data available.

**Developmental Toxicity**

No data available.

**Serious Eye Damage/Eye Irritation**

May cause slight eye irritation.

**Skin Irritation/Corrosion**

May cause slight irritation.

**Reproductive Toxicity**



No data available.

**Specific Target Organ Toxicity – Single Exposure**

No data available.

**Specific Target Organ Toxicity – Repeated Exposure**

No data available.

**Aspiration Hazard**

No data available.

**Additional Information**

Descriptions of possible hazardous to health effects are based on toxicological characteristics of component data.

Thermal decomposition can lead to the release of toxic and corrosive gases. Exposure to decomposition products causes severe irritation of eyes, skin, and mucous membranes

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## Section 12: Ecological Information

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**Toxicity**

No data available.

**Persistence and Degradability**

No data available.

**Bioaccumulative Potential**

No data available.

**Mobility in Soil**

No data available.

**Other**

Ecological injuries are not known or expected under normal use. Avoid transfer into the environment. Do not allow product to enter ground water, watercourse, or sewage system.

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## Section 13: Disposal Considerations

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**Waste Treatment Methods**

Dispose of in accordance with local regulations.

**Product Waste Disposal**

Collect all waste products into an appropriate waste container. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Consult state, local, or national/federal regulations to ensure proper disposal. Do not dispose of into the sewage system or environment. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11).



### **Contaminated Packaging**

Dispose of as unused product. Empty containers retain product residues. Follow label warnings even after container is emptied. Improper disposal or reuse of this container may be dangerous and illegal. Refer to applicable federal, state, and local regulations.

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## **Section 14: Transport Information**

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### **DOT(US)**

Non-hazardous transport

### **IATA (US)**

Non-hazardous transport

### **IMDG (US)**

Non-hazardous for transport

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## **Section 15: Regulatory Information**

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### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### **SARA 313 Components**

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

### **SARA 311/312 Hazards**

No SARA Hazards

### **CERCLA 103**

This material does not contain any components with CERCLA RQ.

### **US TSCA**

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

### **State Regulations**

#### **Massachusetts State Right-to-Know**

Not listed

#### **New Jersey State Right-to-Know**

Not listed

#### **Pennsylvania State Right-to-Know**

Not listed





## California Proposition 65

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

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## Section 16: Other Information

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### Preparation Information and Disclaimer

Prepared 31 January 2020 by Oceanit (808)531-3017. The license is granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. Oceanit believes that the data set forth are accurate and makes no warranty with respects thereto and disclaims all liability for reliance thereon. It also does not represent any guarantee of the properties of the product. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for all loss, injury, damage, or expense due to the use or contact with the product.

### Employer Responsibilities

Employers/purchasers must ensure that the SDSs are readily accessible to employees for all hazardous chemicals in their workplace. This may be done in many ways; for example, employers may keep the SDSs in a binder or on computers if the employees have immediate access to the information without leaving their work area when needed and a back-up is available for rapid access to the SDS in the case of a power outage or other emergency. Furthermore, employers should designate a person(s) responsible for obtaining and maintaining the SDSs. If the employer does not have an SDS, the employer or designated person(s) should contact the manufacturer to obtain one.

# Safety Data Sheet

Revision Date: 02/06/25  
OC-SFD-103

## Section 1: Identification

<b>Product Name</b>	<b>AeroPel APW100, Part B</b>
<b>Company</b>	Oceanit Laboratories, Inc. 828 Fort Street Mall Suite 600 Honolulu, HI, USA 96817
<b>Phone Number</b>	+1-808-531-3017
<b>Emergency Phone Number</b>	+1-808-531-3017
<b>Contact Hours</b>	Monday – Friday 1:00 PM – 10:00 PM ET
<b>Recommended Use</b>	Nanocomposite Protective Layer

## Section 2: Hazard(s) Identification

### GHS Classification(s)

Acute Toxicity, Oral (4)  
Serious Eye Damage (1)  
Skin Sensitivity (1)  
Aquatic Toxicity (2)  
Chronic (3)

### Pictograms



### Signal Word

Danger

### Hazard Statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

### Precautionary Statements

### Prevention



P261  
 P264  
 P270  
 P272

Avoid breathing dust/fume/gas/mist/vapors/spray.  
 Wash hands/skin thoroughly after handling.  
 Do not eat, drink, or smoke when using this product.  
 Contaminated work clothing must not be allowed out of the workplace.

P273  
 P280

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

**Response**

P301 + P312 + P330

IF SWALLOWED: Call a POISON CENTER/doctor if you feel

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

P333 + P313

If skin irritation or rash occurs: Get medical advice/attention.

P362 + P364

Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 + P310

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 or doctor/physician.

**Disposal**

P501

Dispose of contents/container to an approved/licensed waste disposal plant.

**Other Hazards**

Minimize exposure to this material. Severe exposure can result in injury or death. This product has components that react with water in the acid contents of the stomach to form ethanol. This product contains ethanol which is classified as a carcinogen by IARC in alcoholic beverages.

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### Section 3: Composition/Information on Ingredients

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**Pure Substance/Mixture**      Mixture

Chemical Name	Concentration	CAS
Catalyst (Proprietary)	Proprietary	N/A
Hardener (Proprietary)	Proprietary	N/A
UV Additive (Proprietary)	Proprietary	N/A
Ethanol	< 3%	64-17-5

**Trade Secret Statement (OSHA §1910.1200(i))**

The specific chemical identities and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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### Section 4: First-Aid Measures

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**General First-Aid Measures**

Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately. If possible, show this sheet; if not available, show packaging label.

**Eyes**

Rinse/flush exposed eye(s) immediately using plenty of water. If eye irritation persists, get medical attention.

**Skin**

Immediately wash affected area with soap and plenty of water, and rinse thoroughly. If skin irritation persists, get medical attention. Wash contaminated clothing before reusing.

**Ingestion**

Do NOT induce vomiting. Rinse your mouth with water. Drink 1 or 2 glasses of water. If symptoms persist, get medical attention.

**Inhalation**

Move to fresh air.

**Most Important Symptoms and Effects, both Acute and Delayed**

Inhalation exposure may cause: cough, headache, nausea.

Effects of skin contact may include: redness, irritation.

Effects of eye contact may include: irritation.

Symptoms of ingestion may include: nausea, vomiting, abdominal pain.

**Indication of Immediate Medical Attention and Special Treatment Needed**

None. If seeking medical attention, provide SDS documents to physician.

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## Section 5: Fire-Fighting Measures

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**Suitable Extinguishing Agents**

Use dry chemicals, powder, carbon dioxide, water spray, or foam.

**Unsuitable Extinguishing Agents**

None.

**Special Hazards Arising from the Substance or Mixture**

This product is not flammable or explosive. In case of fire, hazardous decomposition products may be produced including: gaseous hydrogen fluoride (HF), fluorophosgene, monomer vapor, carbon oxides (CO, CO<sub>2</sub>).

**Unusual Fire and Explosion Hazards**

Material can splatter above 100 °C/212 °F. Dried products can burn.

**Advice for Firefighters**

Evacuate personnel to safe areas. Approach from upwind. Protect intervention teams with water spray as they approach the fire. Use water spray to cool containers, exposed surfaces, and surroundings. Keep product and empty container away from heat and sources of ignition. Exercise caution when fighting any chemical fire.

### Protective Equipment

Do not enter the fire area without proper personal protective equipment, including respiratory protection. Wear self-contained breathing apparatus/respirator. Wear fully protective impervious suit. When intervention in proximity, wear acid resistant suit.

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## Section 6: Accidental Release Measures

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### Personal Precautions, Protective Equipment, and Emergency Procedures

Avoid contact with skin, eyes, and clothing. In case of a spill or leak, always shut off any sources of ignition, ventilate the area, and exercise caution. Avoid breathing vapors, mist, or gas. Keep people away from and upwind of spill/leak. Equip cleanup crew with proper protection. For personal protection, see section 8. Keep unprotected individuals away. Ensure adequate ventilation. Prevent dust cloud.

### Environmental Precautions

Do not allow material to be released to the environment. Prevent from entering drains, sewer, or waterway. Notify authorities if liquid enters sewers or public waters.

### Procedures and Materials Used for Containment and Cleanup

See section 7 for information on safe handling. See section 8 for information on personal protective equipment. Eliminate all ignition sources. Ensure adequate ventilation. Clean up any spills as soon as possible, using an inert absorbent material to collect it. Use clean, non-sparking tools to put the material into a waste disposal container. Finish cleaning the spill by rinsing contaminated surfaces with plenty of water. Keep in suitable, closed containers for disposal. Dispose of contaminated material as waste, according to section 13. If necessary, use trained response staff/contractor.

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## Section 7: Handling Storage

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### Precautions for Safe Handling

Use personal protective equipment and exposure controls given in section 8. Keep away from heat and ignition sources. Ensure good ventilation at the workplace. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid excessive heat and light. Do not ingest or breathe vapor, mist, or dust. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Wash contaminated clothing before reuse. Wash hands thoroughly after handling.

### Conditions for Safe Storage, Including any Incompatibilities

Keep the container tightly sealed. Store away from heat. Store in cool, dry and well-ventilated place in tightly closed containers. Store away from incompatible compounds, such as oxidizing agents, acids, amines, moisture, and water.

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## Section 8: Exposure Controls/Personal Protection

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### Control Parameters

#### Components with limit values that require monitoring at the workplace

#### Ethanol (64-17-5)

USA ACGIH	ACGIH STEL (ppm)	1000 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>



USA NIOSH  
 USA OSHA  
 USA OSHA  
 USA IDLH

NIOSH REL (TWA) (ppm)	1000 ppm
OSHA PEL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
OSHA PEL (TWA) (ppm)	1000 ppm
US IDLH (ppm)	3300 ppm (10% LEL)

**Exposure Controls**

**Appropriate Engineering Controls**

General industrial hygiene and safety practice. Keep away from food, beverages, and feed sources. Wash hands before breaks and at the end of work. Avoid all unnecessary exposure. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin. Emergency eyewash fountains and safety showers should be available in the immediate vicinity of use/handling or any potential exposure. Maintain an ergonomically appropriate working environment.

Apply technical measures to comply with the occupational exposure limits. Use process enclosures, local exhaust ventilation, or other appropriate engineering. Use a properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

**Individual Protection Measures**

**Eye/Face Protection**

Safety glasses with side-shields.

**Skin Protection**

Nitrile gloves.

**Body Protection**

Long sleeved, impervious clothing. Safety shoes.

**Respiratory Protection**

No personal respiratory protective equipment is normally required, use respirator when performing operations involving potential exposure to vapor of the product. Where vapors or mists may occur, wear a properly fitted NIOSH approved (or equivalent) half-mask, air purifying respirator. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) organic vapor filters. Use only respiratory protection that conforms to international/national standards.

**Control of Environmental Exposure**

Do not let the product enter drains. Dispose of rinse water in accordance with local and national regulations.

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**Section 9: Physical and Chemical Properties**

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**Information on Basic Physical and Chemical Properties**

Appearance

- |                  |             |
|------------------|-------------|
| • Physical State | Liquid      |
| • Color          | Pale Yellow |

Odor	Mild
Odor Threshold	No data available
pH	No data available
Melting Point/Freezing Point	No data available
Initial Boiling Point and Boiling Range	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (Solids, Gas)	No data available
Explosive Properties	
• Lower Explosion Limit	No data available
• Upper Explosion Limit	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Density	No data available
Water Solubility	No data available
Partition Coefficient: n-octanol/water	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Oxidizing Properties	No data available

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## Section 10: Stability and Reactivity

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### Reactivity

Can react exothermically with amines.

### Chemical Stability

Stable under recommended storage conditions (see section 7 for instructions). Air sensitive.

### Possible Hazardous Reactions

Reacts with water and moisture in the air, liberating ethanol. Can polymerize in the presence of weak acids. Reacts with strong oxidizing agents, strong acids.

### Conditions to Avoid

Avoid open flame, sparks, excessive heat, light. Exposure to air.

### Incompatible Materials

Amines, moisture, water, strong oxidizing agents, strong acids.

### Hazardous Decomposition Products

Ethanol, organic acid vapor, carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>). In the event of fire, see section 5.

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## Section 11: Toxicological Information

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### Information on Toxicological Effects

#### Routes of Exposure

Eye contact, inhalation, ingestion, skin contact.

**Acute Toxicity**

No data available.

**LD50/LC50 values that are relevant to this mixture**

No relevant data available.

**Chronic Toxic Effects**

There is no known effect from chronic exposure to this product. Repeated or prolonged exposure to this product is not known to aggravate existing medical conditions.

**Carcinogenic Effects**

No data available. Contains ethanol (CAS 64-17-5) which is considered a human carcinogen by the IARC group.

**Mutagenic Effects**

No data available. Related compound was mutagenic in a chromosome aberration study in cultured peripheral human lymphocytes.

**Teratogenic Effects**

No data available.

**Developmental Toxicity**

No data available.

**Serious Eye Damage/Eye Irritation**

Causes serious eye damage.

**Respiratory or Skin Sensitization/Irritation**

May cause an allergic skin reaction. Irritant to skin and respiratory tract.

**Reproductive Toxicity**

No data available.

**Specific Target Organ Toxicity – Single Exposure**

No data available.

**Specific Target Organ Toxicity – Repeated Exposure**

No data available.

**Aspiration Hazard**

No data available.

**Additional Information**

No data available.

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## Section 12: Ecological Information

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**Toxicity**

No further relevant data available.



**Persistence and Degradability**

No further relevant data available.

**Bioaccumulative Potential**

Ethanol (CAS 64-17-5) Log Pow -0.32. No additional data available.

**Mobility in Soil**

No data available.

**Other**

Avoid transfer into the environment. Harmful to aquatic life if released to open waters.

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## Section 13: Disposal Considerations

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**Waste Treatment Methods****Product Waste Disposal**

Collect all waste product into an appropriate waste container. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Consult state, local, or national/federal regulations to ensure proper disposal. Do not dispose of into the sewage system or environment. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11).

**Contaminated Packaging**

Dispose of as unused product.

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## Section 14: Transport Information

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**DOT(US)**

Non-hazardous transport

**IATA (US)**

Non-hazardous transport

**IMDG (US)**

Non-hazardous for transport

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## Section 15: Regulatory Information

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**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.



**SARA 311/312 Hazards**

No SARA Hazards

**CERCLA 103**

This material does not contain any components with CERCLA RQ.

**US TSCA**

All components of mixture are on the EPA Toxic Substances Control Act (TSCA) inventory list.

**State Regulations**

**Massachusetts State Right-to-Know**

Ethanol (64-17-5)

**New Jersey State Right-to-Know**

Ethanol (64-17-5)

**Pennsylvania State Right-to-Know**

Ethanol (64-17-5)

**California Proposition 65**

**Ethanol (64-17-5)**

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male
Yes	Yes	No	No

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**Section 16: Other Information**

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**Preparation Information and Disclaimer**

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### **Employer Responsibilities**

Employers/purchasers must ensure that the SDSs are readily accessible to employees for all hazardous chemicals in their workplace. This may be done in many ways; for example, employers may keep the SDSs in a binder or on computers as long as the employees have immediate access to the information without leaving their work area when needed and a back-up is available for rapid access to the SDS in the case of a power outage or other emergency. Furthermore, employers should designate a person(s) responsible for obtaining and maintaining the SDSs. If the employer does not have an SDS, the employer or designated person(s) should contact the manufacturer to obtain one.