



## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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**Revision date:** 01.26.2023

### JBS Foaming Shine

#### SECTION 1: Identification

##### Product Identifier

**Product Name:** JBS Foaming Shine

**Product code:** WX-155

##### Recommended Use of the Product and Restriction on Use

**Relevant Identified Uses:** Gloss Enhancer

**Uses Advised Against:** Not determined or not applicable.

**Reasons Why Uses Advised Against:** Not determined or not applicable.

##### Manufacturer or Supplier Details

###### Manufacturer:

###### United States

JBS Industries

2726 Henkle Drive

Lebanon, Ohio 45036

513-228-2800

SBAETEN@JBSINDUSTRIES.COM

##### Emergency Telephone Number:

###### North America

CHEMTREC

800-424-9300 (24 hours)

#### SECTION 2: Hazard(s) Identification

##### GHS Classification:

Skin corrosion, category 1B

Serious eye damage, category 1

Flammable liquids, category 3

Specific target organ toxicity - single exposure, category 3, narcotic effects

##### Label elements

###### Hazard Pictograms:



**Signal Word:** Danger

##### Hazard statements:

H226 Flammable liquid and vapor

H336 May cause drowsiness or dizziness

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

##### Precautionary Statements:

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P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking  
P233 Keep container tightly closed  
P240 Ground/bond container and receiving equipment  
P242 Use only non-sparking tools  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P271 Use only outdoors or in a well-ventilated area  
P260 Do not breathe dust/fume/gas/mist/vapors/spray  
P264 Wash hands thoroughly after handling  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P363 Wash contaminated clothing before reuse  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P403+P235 Store in a well-ventilated place. Keep cool  
P405 Store locked up  
P501 It is the responsibility of the waste generator to characterize all waste material according to regulatory entities.

**Hazards Not Otherwise Classified:** None

## SECTION 3: Composition/Information on Ingredients

| Identification            | Name   | Weight % |
|---------------------------|--|----------|
| CAS Number:<br>61789-77-3 | Quaternary ammonium compounds, dicoco alkyl dimethyl, chlorides  | <32      |
| CAS Number:<br>N/A        | OFS  | <20      |
| CAS Number:<br>111-76-2   | 2-Butoxyethanol  | <20      |
| CAS Number:<br>68155-39-5 | Amines, C14-18 and C16-18-unsaturated alkyl, ethoxylated   | <10      |
| CAS Number:<br>84133-50-6 | Alcohols, C12-14-secondary, ethoxylated  | <8       |
| CAS Number:<br>68131-40-8 | Alcohols, secondary C11-15, ethoxylated  | <8       |
| CAS Number:<br>61789-40-0 | 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | <8       |
| CAS Number:<br>68131-39-5 | Alcohols, C12-15, ethoxylated  | <5       |
| CAS Number:<br>50-00-0    | Formaldehyde   | <0.018   |
| CAS Number:<br>79-43-6    | Dichloroacetic acid  | <0.018   |

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|                        |                 |        |
|------------------------|-----------------|--------|
| CAS Number:<br>75-21-8 | Ethylene oxide  | <0.018 |
| CAS Number:<br>74-87-3 | Methyl chloride | <0.018 |

Additional Information: None

## SECTION 4: First Aid Measures

### Description of First Aid Measures

#### General Notes:

Show this Safety Data Sheet to the doctor in attendance.

#### After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention.

#### After Skin Contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

#### After Eye Contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

#### After Swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

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

#### Acute Symptoms and Effects:

Exposure to skin may result in redness, pain, burning, inflammation and tissue damage. Exposure to eyes may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision. Exposure via inhalation may result in cough, sore throat, burning sensation and shortness of breath. Exposure via ingestion may result in burns of the mouth and throat, abdominal pain, burning sensation in the throat and chest, nausea, vomiting, shock or collapse.

#### Delayed Symptoms and Effects:

Effects are dependent on exposure (dose, concentration, contact time).

### Immediate Medical Attention and Special Treatment

#### Specific Treatment:

Overexposure via inhalation requires urgent medical treatment.

In case of eye contact, seek prompt medical attention while rinsing is continued.

In case of skin contact, seek prompt medical attention while rinsing is continued.

In case of ingestion, seek prompt medical attention.

Skin/eye burns require immediate treatment.

#### Notes for the Doctor:

Treat symptomatically.

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### SECTION 5: Firefighting Measures

#### Extinguishing Media

##### Suitable Extinguishing Media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

##### Unsuitable Extinguishing Media:

Do not use water jet.

#### Specific Hazards During Fire-Fighting:

Flammable liquid. Will be easily ignitable by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation.

#### Special Protective Equipment for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

#### Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

### SECTION 6: Accidental Release Measures

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

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. All equipment used when handling the product must be grounded. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

#### Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

#### Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

#### Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

### SECTION 7: Handling and Storage

#### Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

#### Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages.

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Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

### SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

#### Occupational Exposure Limit Values:

| Country (Legal Basis)     | Substance           | Identifier | Permissible concentration                                  |
|---------------------------|---------------------|------------|--|
| OSHA                      | 2-Butoxyethanol     | 111-76-2   | 8-Hour TWA-PEL: 240 mg/m <sup>3</sup> (50 ppm)             |
|                           | Formaldehyde        | 50-00-0    | 8-Hour TWA-PEL: 0.75 ppm                                   |
|                           | Formaldehyde        | 50-00-0    | 15-Minute STEL: 2 ppm                                      |
|                           | Formaldehyde        | 50-00-0    | 8-Hour TWA-PEL: 0.5 ppm (Action level)                     |
|                           | Ethylene oxide      | 75-21-8    | TWA: 1 ppm   |
|                           | Ethylene oxide      | 75-21-8    | STEL: 5 ppm  |
|                           | Methyl chloride     | 74-87-3    | 8-Hour TWA-PEL: 210 mg/m <sup>3</sup> (100 ppm)            |
|                           | Methyl chloride     | 74-87-3    | PEL Ceiling: 200 ppm (300 ppm [Peak - 5 min in any 3 hrs]) |
| NIOSH                     | 2-Butoxyethanol     | 111-76-2   | IDLH: 700 ppm  |
|                           | 2-Butoxyethanol     | 111-76-2   | REL-TWA: 24 mg/m <sup>3</sup> (5 ppm [up to 10 hr])        |
|                           | Formaldehyde        | 50-00-0    | REL-TWA: 0.016 ppm (up to 10 hr)                           |
|                           | Formaldehyde        | 50-00-0    | Ceiling Limit: 0.1 ppm (15 min)                            |
|                           | Formaldehyde        | 50-00-0    | IDLH: 20 ppm   |
|                           | Ethylene oxide      | 75-21-8    | IDLH: 800 ppm  |
|                           | Ethylene oxide      | 75-21-8    | Ceiling Limit: 9 mg/m <sup>3</sup> (5 ppm [10-min/day])    |
|                           | Ethylene oxide      | 75-21-8    | REL: 0.18 mg/m <sup>3</sup> (0.1 ppm)                      |
| ACGIH                     | Methyl chloride     | 74-87-3    | IDLH: 2000 ppm   |
|                           | 2-Butoxyethanol     | 111-76-2   | 8-Hour TWA: 20 ppm   |
|                           | Formaldehyde        | 50-00-0    | 15-Minute STEL: 0.3 ppm                                    |
|                           | Formaldehyde        | 50-00-0    | 8-Hour TWA: 0.1 ppm  |
|                           | Dichloroacetic acid | 79-43-6    | 8-Hour TWA: 0.5 ppm  |
|                           | Ethylene oxide      | 75-21-8    | TWA: 1 ppm   |
|                           | Methyl chloride     | 74-87-3    | 8-Hour TWA: 50 ppm   |
| United States(California) | Methyl chloride     | 74-87-3    | 15-Minute STEL: 100 ppm                                    |
|                           | 2-Butoxyethanol     | 111-76-2   | 8-Hour TWA-PEL: 97 mg/m <sup>3</sup> (20 ppm)              |
|                           | Formaldehyde        | 50-00-0    | 15-Minute STEL: 2 ppm                                      |
|                           | Formaldehyde        | 50-00-0    | 8-Hour TWA-PEL: 0.75 ppm                                   |
|                           | Formaldehyde        | 50-00-0    | 8-Hour TWA: 0.5 ppm (Action level)                         |
|                           | Ethylene oxide      | 75-21-8    | STEL: 5 ppm  |
|                           | Ethylene oxide      | 75-21-8    | PEL: 2 mg/m <sup>3</sup> (1 ppm)                           |

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| Country (Legal Basis) | Substance       | Identifier | Permissible concentration                        |
|-----------------------|-----------------|------------|--|
|                       | Ethylene oxide  | 75-21-8    | REL: 0.03 mg/m <sup>3</sup> (Chronic inhalation) |
|                       | Methyl chloride | 74-87-3    | 8-Hour TWA-PEL: 105 mg/m <sup>3</sup> (50 ppm)   |
|                       | Methyl chloride | 74-87-3    | 15-Minute STEL: 210 mg/m <sup>3</sup> (100 ppm)  |
|                       | Methyl chloride | 74-87-3    | PEL Ceiling: 300 ppm                             |

### Biological Limit Values:

| Country (Legal Basis) | Substance       | Identifier | Determinant  | Specimen            | Sampling time | Permissible limits |
|-----------------------|-----------------|------------|--|---------------------|---------------|--------------------|
| ACGIH                 | 2-Butoxyethanol | 111-76-2   | Butoxyacetic acid (with hydrolysis)                | Creatinine in Urine | End of shift  | 200 mg/g           |
|                       | Ethylene oxide  | 75-21-8    | N-(2-hydroxyethyl)-valine (HEV) hemoglobin adducts | Hemoglobin adducts  | Not critical  | 5000 pmol/g        |
|                       | Ethylene oxide  | 75-21-8    | S-(2-hydroxyethyl) mercapturic acid (HEMA)         | Creatinine in urine | End of shift  | 5 µg/g             |

### Information on Monitoring Procedures:

Not determined or not applicable.

### Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

### Personal Protection Equipment

#### Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

#### Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

#### Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

### General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

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### SECTION 9: Physical and Chemical Properties

#### Information on Basic Physical and Chemical Properties

|   |                                  |
|---|----------------------------------|
| Appearance                              | Liquid                           |
| Odor                                    | Std.                             |
| Odor threshold                          | Not determined or not available. |
| pH                                      | 6-8                              |
| Melting point/freezing point            | Not determined or not available. |
| Initial boiling point/range             | Not determined or not available. |
| Flash point (closed cup)                | Not determined or not available. |
| Evaporation rate                        | Not determined or not available. |
| Flammability (solid, gas)               | Not determined or not available. |
| Upper flammability/explosive limit      | Not determined or not available. |
| Lower flammability/explosive limit      | Not determined or not available. |
| Vapor pressure                          | Not determined or not available. |
| Vapor density                           | Not determined or not available. |
| Density                                 | Not determined or not available. |
| Relative density                        | Not determined or not available. |
| Solubilities                            | Not determined or not available. |
| Partition coefficient (n-octanol/water) | Not determined or not available. |
| Auto/Self-ignition temperature          | Not determined or not available. |
| Decomposition temperature               | Not determined or not available. |
| Dynamic viscosity                       | Not determined or not available. |
| Kinematic viscosity                     | Not determined or not available. |
| Explosive properties                    | Not determined or not available. |
| Oxidizing properties                    | Not determined or not available. |

### SECTION 10: Stability and Reactivity

#### Reactivity:

Not reactive under recommended handling and storage conditions.

#### Chemical Stability:

Stable under recommended handling and storage conditions.

#### Possibility of Hazardous Reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

#### Conditions to Avoid:

Avoid generation of aerosols and mists, extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Extreme heat, open flames, hot surfaces, sparks, ignition sources, static electricity and incompatible materials. Vapor accumulation in low or confined areas.

#### Incompatible Materials:

None known.

#### Hazardous Decomposition Products:

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Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological Information

#### Acute Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

#### Substance Data:

| Name   | Route          | Result                                     |
|--|----------------|--|
| OFS  | oral           | LD50 Rat: >15800 mg/kg                     |
|  | dermal         | LD50 Rabbit: >7940 mg/kg                   |
| 2-Butoxyethanol  | dermal         | LD50 Rabbit: 1060 mg/kg                    |
|  | Oral ATE       | LD50 Rat: 1200 mg/kg (Annex VI to the CLP) |
|  | oral           | LD50 Rat: 470 mg/kg                        |
|  | Inhalation ATE | LC50 Rat: 11 mg/L (4 hr [Vapor])           |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | oral           | LD50 Rat: 4900 mg/kg                       |
|  | dermal         | LD50 Rat: > 2000 mg/kg                     |
| Alcohols, C12-15, ethoxylated  | oral           | LD50 Rat: > 5000 mg/kg                     |
|  | dermal         | LD50 Rat: > 2000 mg/kg                     |
| Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides   | Oral ATE       | LD50 Rat: 500 mg/L                         |
| Alcohols, secondary C11-15, ethoxylated  | oral           | LD50 Rat: >= 2000 mg/kg                    |
|  | dermal         | LD50 Rat: >2000 mg/kg                      |
| Amines, C14-18 and C16-18-unsaturated alkyl, ethoxylated   | Oral ATE       | LD50 Rat: 5 mg/kg                          |
| Formaldehyde   | oral           | LD50 Rat: 100 mg/kg                        |
|  | inhalation     | LC50 Rat: <463 ppmV (4 hr (vapor))         |
|  | dermal         | LD50 Rabbit: 270 mg/kg                     |
| Dichloroacetic acid  | dermal         | LD50 Rabbit: 797 mg/kg                     |
|  | oral           | LD50 Rat: 2820 mg/kg                       |
| Ethylene oxide   | inhalation     | LC50 Rat: 1450 ppmV (4 Hours (Gas))        |
|  | oral           | LD50 Rat: 72 mg/kg                         |
|  | Inhalation ATE | LC50 Rat: 700 ppmV ((Gases))               |
|  | Oral ATE       | LD50 Rat: 100 mg/kg                        |
| Methyl chloride  | inhalation     | LC50 Rat: 2566 ppmV (4 hr - Gas)           |
|  | oral           | LD50 Rat: 1800 mg/kg                       |

#### Skin Corrosion/Irritation

##### Assessment:

Causes severe skin burns and eye damage.

##### Product Data:

No data available.

##### Substance Data:



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| Name   | Result                    |
|--|---------------------------|
| Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides   | Causes severe skin burns. |
| 2-Butoxyethanol  | Causes skin irritation.   |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | Causes skin irritation.   |
| Alcohols, C12-14-secondary, ethoxylated  | Causes skin irritation.   |
| Amines, C14-18 and C16-18-unsaturated alkyl, ethoxylated   | Causes skin irritation.   |
| Alcohols, C12-15, ethoxylated  | Causes skin irritation.   |
| Alcohols, secondary C11-15, ethoxylated  | Causes skin irritation.   |
| Formaldehyde   | Causes severe skin burns. |
| Dichloroacetic acid  | Causes severe skin burns. |
| Ethylene oxide   | Causes severe skin burns. |

#### Serious Eye Damage/Irritation

**Assessment:**

Causes serious eye damage.

**Product Data:**

No data available.

**Substance Data:**

| Name   | Result                         |
|--|--------------------------------|
| Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides   | Causes serious eye damage.     |
| 2-Butoxyethanol  | Causes serious eye irritation. |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | Causes serious eye irritation. |
| Alcohols, C12-14-secondary, ethoxylated  | Causes serious eye damage.     |
| Amines, C14-18 and C16-18-unsaturated alkyl, ethoxylated   | Causes serious eye damage.     |
| Alcohols, C12-15, ethoxylated  | Causes serious eye damage.     |
| Alcohols, secondary C11-15, ethoxylated  | Causes serious eye damage.     |
| Formaldehyde   | Causes serious eye damage.     |
| Dichloroacetic acid  | Causes serious eye damage.     |
| Ethylene oxide   | Causes serious eye damage.     |

#### Respiratory or Skin Sensitization

**Assessment:** Based on available data, the classification criteria are not met.

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### Product Data:

No data available.

### Substance Data:

| Name         | Result                               |
|--------------|--------------------------------------|
| Formaldehyde | May cause an allergic skin reaction. |

### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

### Substance Data:

| Name            | Species | Result                                      |
|-----------------|---------|---|
| Formaldehyde    |         | May cause cancer.                           |
| Ethylene oxide  |         | May cause cancer.                           |
| Methyl chloride | Rat     | Suspected of causing cancer via inhalation. |

### International Agency for Research on Cancer (IARC):

| Name   | Classification |
|--|----------------|
| Alcohols, C12-15, ethoxylated  | Not Applicable |
| Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides   | Not Applicable |
| 2-Butoxyethanol  | Group 3        |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | Not Applicable |
| Alcohols, C12-14-secondary, ethoxylated  | Not Applicable |
| Alcohols, secondary C11-15, ethoxylated  | Not Applicable |
| Amines, C14-18 and C16-18-unsaturated alkyl, ethoxylated   | Not Applicable |
| Formaldehyde   | Group 1        |
| Dichloroacetic acid  | Group 2B       |
| Ethylene oxide   | Group 1        |
| Methyl chloride  | Group 3        |

### National Toxicology Program (NTP):

| Name   | Classification |
|--|----------------|
| Alcohols, C12-15, ethoxylated                                  | Not Applicable |
| Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides | Not Applicable |
| 2-Butoxyethanol  | Not Applicable |

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| Name   | Classification                                 |
|--|--|
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | Not Applicable                                 |
| Alcohols, C12-14-secondary, ethoxylated  | Not Applicable                                 |
| Alcohols, secondary C11-15, ethoxylated  | Not Applicable                                 |
| Amines, C14-18 and C16-18-unsaturated alkyl, ethoxylated   | Not Applicable                                 |
| Formaldehyde   | Known to be human carcinogens                  |
| Dichloroacetic acid  | Reasonably anticipated to be human carcinogens |
| Ethylene oxide   | Known to be human carcinogens                  |
| Methyl chloride  | Not Applicable                                 |

### OSHA Carcinogens:

| Ingredient Name | CAS     | OSHA Carcinogens Status |
|-----------------|---------|-------------------------|
| Formaldehyde    | 50-00-0 | Yes                     |

### Germ Cell Mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

#### Substance Data:

| Name           | Result                                |
|----------------|---------------------------------------|
| Formaldehyde   | Suspected of causing genetic defects. |
| Ethylene oxide | May cause genetic defects.            |

### Reproductive Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

#### Substance Data:

| Name           | Result  |
|----------------|---|
| Ethylene oxide | May damage fertility. Suspected of damaging the unborn child. |

### Specific Target Organ Toxicity (Single Exposure)

#### Assessment:

May cause drowsiness or dizziness.

#### Product Data:

No data available.

#### Substance Data:

| Name           | Result                             |
|----------------|------------------------------------|
| Formaldehyde   | May cause respiratory irritation.  |
| Ethylene oxide | May cause respiratory irritation.  |
|                | May cause drowsiness or dizziness. |

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### Specific Target Organ Toxicity (Repeated Exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

No data available.

**Substance Data:**

| Name            | Result   |
|-----------------|--|
| Ethylene oxide  | Studies on the effects of Ethylene oxide have concluded not only neurotoxic symptoms in humans, but also measured effects on nerve conduction velocities indicative of sensorimotor neuropathy, and axonal degeneration observed in nerve biopsies of exposed workers. |
| Methyl chloride | May causes damage to organs through prolonged or repeated exposure.  |

### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

No data available.

**Substance Data:** No data available.

### Information on Likely Routes of Exposure:

No data available.

### Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

**Other Information:**

No data available.

## SECTION 12: Ecological Information

### Acute (Short-Term) Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

**Substance Data:**

| Name   | Result   |
|--|--|
| OFS  | Fish LC50 Fish: >1000 mg/L (96 hours)  |
| 2-Butoxyethanol  | Aquatic Invertebrates EC50 Daphnia magna: 1550 mg/L (48 hr [mobility])               |
|  | Fish LC50 Oncorhynchus mykiss: 1474 mg/L (96 hr)                                     |
|  | Aquatic Plants EC50 Freshwater algae: 1840 mg/L (72 hr [growth rate])                |
| Alcohols, C12-15, ethoxylated  | Aquatic Invertebrates EC50 Daphnia magna: 0.14 mg/L (48 hr)                          |
|  | Aquatic Plants EC50 Pseudokirchneriella subcapitata: 0.75 mg/L (72 hr)               |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | Fish LC50 Danio rerio: 2 mg/L (96 hr)  |
|  | Aquatic Invertebrates EC50 Daphnia magna: 6.4 mg/L (48 hr)                           |
| Alcohols, secondary C11-15, ethoxylated  | Aquatic Plants EC50 Pseudokirchneriella subcapitata: 2.01 mg/L (72 hr [growth rate]) |
|  | Fish LC50 Lepomis macrochirus: 3.2 mg/L (96 hr)                                      |
|  | Aquatic Invertebrates EC50 Daphnia magna: 5.66 mg/L (48 hr)                          |
| Dichloroacetic acid  | Aquatic Invertebrates EC50 Daphnia magna: 106 mg/L (24 hr)                           |
|  | Fish LC50 Marine water fish: >2000 mg/L (96 hr)                                      |
|  | Aquatic Plants EC50 Marine water algae: 148.2 mg/L (72 hr)                           |

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| Name            | Result   |
|-----------------|--|
| Ethylene oxide  | Aquatic Plants EC50 Pseudokirchneriella subcapitata: 240 mg/L (96 h, read-across substance data) |
|                 | Aquatic Invertebrates LC50 Daphnia magna: 212 mg/L (48 h)  |
|                 | Fish LC50 Pimephales promelas: 84 mg/L (96 h)  |
| Methyl chloride | Aquatic Plants EC50 Algae: 231 mg/L (96 hr [growth rate])  |
|                 | Fish LC50 Lepomis macrochirus: 550 mg/L (96 hr)  |
|                 | Aquatic Invertebrates EC50 Daphnia magna: 200 mg/L (48 hr [mobility])                            |

#### Chronic (Long-Term) Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

#### Substance Data:

| Name   | Result   |
|--|--|
| Alcohols, C12-15, ethoxylated  | Fish NOEC Fathead minnow: 0.16 mg/L (10 days)                            |
|  | Aquatic Invertebrates NOEC Daphnia magna: 0.77 mg/L (21 days)            |
| 2-Butoxyethanol  | Fish LC50 Poecilia reticulata: 983 mg/L (7 d)                            |
|  | Aquatic Invertebrates EC50 Daphnia magna: 297 mg/L (21 d [reproduction]) |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | Aquatic Invertebrates NOEC Daphnia magna: 0.9 mg/L (21 d)                |
| Alcohols, secondary C11-15, ethoxylated  | Fish EC10 Pimephales promelas: 0.87 mg/L (32 d [egg survival; QSAR])     |
|  | Aquatic Invertebrates NOEC Daphnia: 0.2 mg/L (21 d [mortality])          |

#### Persistence and Degradability

**Product Data:** No data available.

#### Substance Data:

| Name   | Result   |
|--|--|
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | Readily biodegradable in water (50% degradation after 1 day; >90% degradation after 5 days).                 |
| Alcohols, C12-15, ethoxylated  | Readily biodegradable (61% degradation after 28 days).   |
| 2-Butoxyethanol  | Readily biodegradable (90.4% degradation after 28 days, measured by CO2 evolution).                          |
| Alcohols, secondary C11-15, ethoxylated  | The substance is readily biodegradable. 65% degradation in water, measured by O2 consumption, after 28 days. |
| Formaldehyde   | Readily biodegradable (99% degradation after 28 days).   |
| Dichloroacetic acid  | This substance is readily biodegradable.   |
| Ethylene oxide   | Readily biodegradable (96% degradation after 28 days).   |
| Methyl chloride  | This substance is readily biodegradable. 77% degradation after 28 days in closed bottle test.                |

#### Bioaccumulative Potential

**Product Data:** No data available.

#### Substance Data:

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| Name   | Result  |
|--|---|
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | Substance is not expected to bioaccumulate significantly (estimated BCF: 70.79 L/kg).   |
| 2-Butoxyethanol  | Not expected to bioaccumulate (log Kow = 0.83).   |
| Alcohols, secondary C11-15, ethoxylated  | The substance is bioaccumulative (B) but not very bioaccumulative (vB). Calculated (QSAR) BCF: $\geq 181 - \leq 3\ 010$ dimensionless |
| Formaldehyde   | Accumulation in aquatic organisms is not to be expected.  |
| Dichloroacetic acid  | This substance has low potential for bioaccumulation.   |
| Ethylene oxide   | Low potential for bioaccumulation (logKow = -0.3).  |
| Methyl chloride  | Bioaccumulation is not expected based on log Kow of 0.91.   |

#### Mobility in Soil

**Product Data:** No data available.

##### Substance Data:

| Name   | Result  |
|--|---|
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | Substance is mobile to moderately mobile (experimental log Koc: 1.812 dimensionless; calculated Koc: 648 L/kg); therefore, moderate adsorption to soil can be expected. |
| Alcohols, secondary C11-15, ethoxylated  | The substance is hardly mobile to immobile in soil with a high potential for adsorption to soil and sediment. Koc: $\geq 14\ 000 - \leq 420\ 000$ dimensionless         |
| Formaldehyde   | Adsorption to solid soil phase is possible.   |
| Dichloroacetic acid  | This substance will not adsorb at all to soils or sediments should these environmental compartments be exposed to it.   |
| Methyl chloride  | Adsorption to soil and sediment is expected to be low due to the log Koc value of 1.12 and the gaseous form of the substance.   |

#### Results of PBT and vPvB assessment

##### Product Data:

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

##### Substance Data:

###### PBT assessment:

|  |                            |
|--|----------------------------|
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | Substance is not PBT.      |
| Alcohols, C12-15, ethoxylated  | The substance is not PBT.  |
| 2-Butoxyethanol  | The substance is not PBT.  |
| Alcohols, secondary C11-15, ethoxylated  | The substance is not PBT.  |
| Formaldehyde   | Not a PBT substance.       |
| Dichloroacetic acid  | This substance is not PBT. |
| Ethylene oxide   | This substance is not PBT. |
| Methyl chloride  | The substance is not PBT.  |

###### vPvB assessment:

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|  |                             |
|--|-----------------------------|
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | Substance is not vPvB.      |
| Alcohols, C12-15, ethoxylated  | The substance is not vPvB.  |
| 2-Butoxyethanol  | The substance is not vPvB.  |
| Alcohols, secondary C11-15, ethoxylated  | The substance is not vPvB.  |
| Formaldehyde   | Not a vPvB substance.       |
| Dichloroacetic acid  | This substance is not vPvB. |
| Ethylene oxide   | This substance is not vPvB. |
| Methyl chloride  | The substance is not vPvB.  |

**Other Adverse Effects:** No data available.

## SECTION 13: Disposal Considerations

### Disposal Methods:

Immediately call a POISON CENTER/doctor if difficulty of breathing occurs.

### Contaminated packages:

Not determined or not applicable.

## SECTION 14: Transport Information

### United States Transportation of Dangerous Goods (49 CFR DOT)

|                                      |               |
|--------------------------------------|---------------|
| <b>UN Number</b>                     | Not Regulated |
| <b>UN Proper Shipping Name</b>       | Not regulated |
| <b>UN Transport Hazard Class(es)</b> | None          |
| <b>Packing Group</b>                 | None          |
| <b>Environmental Hazards</b>         | None          |
| <b>Special Precautions for User</b>  | None          |

### International Maritime Dangerous Goods (IMDG)

|                                      |               |
|--------------------------------------|---------------|
| <b>UN Number</b>                     | Not regulated |
| <b>UN Proper Shipping Name</b>       | Not regulated |
| <b>UN Transport Hazard Class(es)</b> | None          |
| <b>Packing Group</b>                 | None          |
| <b>Environmental Hazards</b>         | None          |
| <b>Special Precautions for User</b>  | None          |

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

|                                      |               |
|--------------------------------------|---------------|
| <b>UN Number</b>                     | Not regulated |
| <b>UN Proper Shipping Name</b>       | Not regulated |
| <b>UN Transport Hazard Class(es)</b> | None          |
| <b>Packing Group</b>                 | None          |
| <b>Environmental Hazards</b>         | None          |

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|                              |      |
|------------------------------|------|
| Special Precautions for User | None |
|------------------------------|------|

### SECTION 15: Regulatory Information

#### United States Regulations

**Inventory Listing (TSCA):** All ingredients are listed-active or exempt.

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

**Export Notification under TSCA Section 12(b):** None of the ingredients are listed.

#### SARA Section 302 Extremely Hazardous Substances:

|         |                |        |
|---------|----------------|--------|
| 50-00-0 | Formaldehyde   | Listed |
| 75-21-8 | Ethylene oxide | Listed |

#### SARA Section 313 Toxic Chemicals:

|          |                 |        |
|----------|-----------------|--------|
| 111-76-2 | 2-Butoxyethanol | Listed |
| 50-00-0  | Formaldehyde    | Listed |
| 75-21-8  | Ethylene oxide  | Listed |
| 74-87-3  | Methyl chloride | Listed |

#### CERCLA:

|          |                 |        |          |
|----------|-----------------|--------|----------|
| 111-76-2 | 2-Butoxyethanol | Listed | N/A      |
| 50-00-0  | Formaldehyde    | Listed | 100 lb   |
| 75-21-8  | Ethylene oxide  | Listed | 10 lbs   |
| 74-87-3  | Methyl chloride | Listed | 100 Lbs. |

#### RCRA:

|         |                 |        |      |
|---------|-----------------|--------|------|
| 50-00-0 | Formaldehyde    | Listed | U122 |
| 75-21-8 | Ethylene oxide  | Listed | U115 |
| 74-87-3 | Methyl chloride | Listed | U045 |

#### Section 112(r) of the Clean Air Act (CAA):

|         |                 |        |
|---------|-----------------|--------|
| 50-00-0 | Formaldehyde    | Listed |
| 75-21-8 | Ethylene oxide  | Listed |
| 74-87-3 | Methyl chloride | Listed |

#### Massachusetts Right to Know:

|          |                 |        |
|----------|-----------------|--------|
| 111-76-2 | 2-Butoxyethanol | Listed |
| 50-00-0  | Formaldehyde    | Listed |
| 75-21-8  | Ethylene oxide  | Listed |
| 74-87-3  | Methyl chloride | Listed |

#### New Jersey Right to Know:

|          |                     |        |
|----------|---------------------|--------|
| 111-76-2 | 2-Butoxyethanol     | Listed |
| 50-00-0  | Formaldehyde        | Listed |
| 79-43-6  | Dichloroacetic acid | Listed |
| 75-21-8  | Ethylene oxide      | Listed |
| 74-87-3  | Methyl chloride     | Listed |

#### New York Right to Know:

|          |                 |        |
|----------|-----------------|--------|
| 111-76-2 | 2-Butoxyethanol | Listed |
| 50-00-0  | Formaldehyde    | Listed |



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|         |                     |        |
|---------|---------------------|--------|
| 79-43-6 | Dichloroacetic acid | Listed |
| 75-21-8 | Ethylene oxide      | Listed |
| 74-87-3 | Methyl chloride     | Listed |

### Pennsylvania Right to Know:

|          |                 |        |
|----------|-----------------|--------|
| 111-76-2 | 2-Butoxyethanol | Listed |
| 50-00-0  | Formaldehyde    | Listed |
| 75-21-8  | Ethylene oxide  | Listed |
| 74-87-3  | Methyl chloride | Listed |

### California Proposition 65:

**⚠️WARNING:** This product can expose you to Formaldehyde; which is known to the State of California to cause cancer; and Methyl chloride, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**⚠️WARNING:** This product can expose you to chemicals including Dichloroacetic acid and Ethylene oxide; which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Additional information:** Not determined.

## SECTION 16: Other Information

**Abbreviations and Acronyms:** None

### Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 0-0-0

**HMIS:** 0-0-0

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**Revision date:** 01.26.2023

**End of Safety Data Sheet**