



## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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### Fonic Wash Low pH Citrus

#### SECTION 1: Identification

##### Product Identifier

**Product Name:** Fonic Wash Low pH Citrus

**Product code:** PR-174

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

**Relevant Identified Uses:** Pre-soak Liquid Detergent

**Uses Advised Against:** NA

**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 irritation, category 2

Serious eye damage, category 1

Skin sensitization, category 1

Carcinogenicity, category 1A

##### Label elements

###### Hazard Pictograms:



**Signal Word:** Danger

##### Hazard statements:

H315 Causes skin irritation

H318 Causes serious eye damage

H317 May cause an allergic skin reaction

H350 May cause cancer

##### Precautionary Statements:

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P264 Wash contaminated skin thoroughly after handling  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P272 Contaminated work clothing must not be allowed out of the workplace  
P202 Do not handle until all safety precautions have been read and understood  
P302+P352 IF ON SKIN: Wash with plenty of water for 15 minutes.  
P362 Take off contaminated clothing and wash it 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  
P310 Immediately call a POISON CENTER/doctor if difficulty in breathing occurs.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention  
P363 Wash contaminated clothing before reuse  
P308+P313 IF exposed or concerned: Get medical advice/attention  
P405 Store locked up  
P501 Dispose of contents/container to qualified/license disposal company.

**Hazards Not Otherwise Classified:** None

### SECTION 3: Composition/Information on Ingredients

| Identification             | Name   | Weight % |
|----------------------------|--|----------|
| CAS Number:<br>68584-22-5  | Benzenesulfonic acid, C10-16-alkyl derivatives   | 1-30     |
| CAS Number:<br>7664-38-2   | Orthophosphoric Acid   | <40      |
| CAS Number:<br>84133-50-6  | Alcohols, C12-14-secondary, ethoxylated  | <30      |
| CAS Number:<br>68439-46-3  | Alcohols, C9-11, branched and linear, ethoxylated  | <30      |
| CAS Number:<br>8028-48-6   | Orange, sweet, ext.  | 1-20     |
| CAS Number:<br>7647-01-0   | Hydrogen chloride  | <12.95   |
| CAS Number:<br>111-76-2    | Ethylene Glycol Monobutyl Ether  | <10      |
| CAS Number:<br>Proprietary | Ammonium Methyl Sulfate  | <4.5     |
| CAS Number:<br>Proprietary | Fatty Alcohol Ethoxylate   | <4.5     |
| CAS Number:<br>Proprietary | Nonionic Diluent   | <4.5     |
| CAS Number:<br>25322-68-3  | Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated | <0.9     |
| CAS Number:<br>75-21-8     | Ethylene oxide   | <0.03    |

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|                         |             |       |
|-------------------------|-------------|-------|
| CAS Number:<br>123-91-1 | 1,4-dioxane | <0.03 |
|-------------------------|-------------|-------|

Additional Information: None

## SECTION 4: First Aid Measures

### Description of First Aid Measures

#### General Notes:

Not determined or not applicable.

#### 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 experiencing respiratory symptoms, seek medical advice/attention.

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.

Immediately rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. Seek immediate medical attention, preferably from an ophthalmologist.

#### 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:

Skin contact may result in redness, pain, burning and inflammation.

Eye contact may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision.

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

#### Delayed Symptoms and Effects:

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

Exposure may cause cancer. Effects are dependent on exposure (dose, concentration, contact time).

### Immediate Medical Attention and Special Treatment

#### Specific Treatment:

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

#### Notes for the Doctor:

Not determined or not applicable.

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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:

Thermal decomposition may produce irritating/toxic fumes/gases.

#### 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. 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. Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Do not get on skin, eyes or on clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.

Respiratory protection may be necessary for spills greater than 5 gallons. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

#### 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).

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Avoid breathing dust, mist, fumes, vapors or spray. 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

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handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

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. Do not get in eyes. Avoid contact with skin 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.

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).

Store in cool and dry location and out of direct sunlight. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use. Keep away from food and beverages. Protect from freezing and physical damage.

### 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                  | Ethylene Glycol Monobutyl Ether | 111-76-2  | 8-Hour TWA-PEL: 240 mg/m <sup>3</sup> (50 ppm)              |
|                       | Orthophosphoric Acid            | 7664-38-2   | 8-Hour TWA-PEL: 1 mg/m <sup>3</sup> (OSHA Table Z-1 limits) |
|                       | Orthophosphoric Acid            | 7664-38-2   | TWA: 1 mg/m <sup>3</sup> (OSHA Table Z-1-A)                 |
|                       | Orthophosphoric Acid            | 7664-38-2   | STEL: 3 mg/m <sup>3</sup> (OSHA Table Z-1-A)                |
|                       | Hydrogen chloride               | 7647-01-0   | Ceiling Limit: 5 ppm (7 mg/m <sup>3</sup> )                 |
|                       | Hydrogen chloride               | 7647-01-0   | PEL: 5 ppm (7 mg/m <sup>3</sup> )                           |
|                       | Ethylene oxide                  | 75-21-8   | 8-Hour TWA-PEL: 1 ppm                                       |
|                       | Ethylene oxide                  | 75-21-8   | 15-Minute STEL: 5 ppm                                       |
|                       | Ethylene oxide                  | 75-21-8   | 8-Hour TWA: 0.5 ppm (Action level)                          |
|                       | 1,4-dioxane                     | 123-91-1  | 8-Hour TWA-PEL: 360 mg/m <sup>3</sup> (100 ppm)             |
| NIOSH                 | Ethylene Glycol Monobutyl Ether | 111-76-2  | IDLH: 700 ppm   |
|                       | Ethylene Glycol Monobutyl Ether | 111-76-2  | REL-TWA: 24 mg/m <sup>3</sup> (5 ppm [up to 10 hr])         |
|                       | Orthophosphoric Acid            | 7664-38-2   | REL-TWA: 1 mg/m <sup>3</sup> (up to 10 hr)                  |
|                       | Orthophosphoric Acid            | 7664-38-2   | 15-Minute STEL: 3 mg/m <sup>3</sup>                         |
|                       | Orthophosphoric Acid            | 7664-38-2   | IDLH: 1000 mg/m <sup>3</sup>                                |
|                       | Hydrogen chloride               | 7647-01-0   | IDLH: 50 ppm  |
|                       | Hydrogen chloride               | 7647-01-0   | Ceiling Limit: 5 ppm (7 mg/m <sup>3</sup> )                 |
|                       | 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-TWA: 0.18 mg/m <sup>3</sup> (0.1 ppm [up to 10 hr]) |   |

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| Country (Legal Basis)     | Substance  | Identifier | Permissible concentration  |
|---------------------------|--|------------|--|
|                           | 1,4-dioxane  | 123-91-1   | IDLH: 500 ppm  |
|                           | 1,4-dioxane  | 123-91-1   | Ceiling Limit: 3.6 mg/m <sup>3</sup> (1 ppm [30-min])            |
| ACGIH                     | Ethylene Glycol Monobutyl Ether  | 111-76-2   | 8-Hour TWA: 20 ppm   |
|                           | Orthophosphoric Acid   | 7664-38-2  | 8-Hour TWA: 1 mg/m <sup>3</sup>                                  |
|                           | Orthophosphoric Acid   | 7664-38-2  | 15-Minute STEL: 3 mg/m <sup>3</sup>                              |
|                           | Hydrogen chloride  | 7647-01-0  | Ceiling Limit: 2 ppm (TLV)                                       |
|                           | Ethylene oxide   | 75-21-8    | 8-Hour TWA: 1 ppm  |
|                           | 1,4-dioxane  | 123-91-1   | 8-Hour TWA: 20 ppm   |
| United States(California) | Orthophosphoric Acid   | 7664-38-2  | 8-Hour TWA-PEL: 1 mg/m <sup>3</sup>                              |
|                           | Orthophosphoric Acid   | 7664-38-2  | 15-Minute STEL: 3 mg/m <sup>3</sup>                              |
|                           | Ethylene Glycol Monobutyl Ether  | 111-76-2   | 8-Hour TWA-PEL: 97 mg/m <sup>3</sup> (20 ppm)                    |
|                           | Hydrogen chloride  | 7647-01-0  | PEL: 0.3 ppm (0.45 mg/m <sup>3</sup> )                           |
|                           | Hydrogen chloride  | 7647-01-0  | Ceiling Limit: 2 ppm   |
|                           | Ethylene oxide   | 75-21-8    | 15-Minute STEL: 5 ppm  |
|                           | Ethylene oxide   | 75-21-8    | 8-Hour TWA-PEL: 2 mg/m <sup>3</sup> (1 ppm)                      |
|                           | Ethylene oxide   | 75-21-8    | 8-Hour TWA: 0.5 ppm (Action level)                               |
|                           | 1,4-dioxane  | 123-91-1   | 8-Hour TWA-PEL: 1 mg/m <sup>3</sup> (0.28 ppm)                   |
| WEEL                      | Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated | 25322-68-3 | 8-Hour TWA: 10 mg/m <sup>3</sup> (molecular weight >200 aerosol) |

**Biological Limit Values:**

| Country (Legal Basis) | Substance                       | Identifier  | Determinant  | Specimen            | Sampling time | Permissible limits   |
|-----------------------|---------------------------------|-------------|--|---------------------|---------------|----------------------|
| ACGIH                 | Ethylene Glycol Monobutyl Ether | 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               |
| WEEL                  | Nonionic Diluent                | Proprietary | Aerosol  |                     | TWA           | 10 mg/m <sup>3</sup> |

**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).

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### 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).

Use safety glasses with side shields or goggles. Consider the use of a face shield for splash protection.

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).

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Full body protection should be worn. 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.

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. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

#### 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.

Handle in accordance with good industrial hygiene and safety measures. Wash hands and face after handling chemical products. Wash hands before eating, drinking and smoking. Wash hands at the end of the workday. Appropriate techniques should be applied to remove contaminated clothing and shoes. Wash contaminated clothing before reuse.

## SECTION 9: Physical and Chemical Properties

### Information on Basic Physical and Chemical Properties

|                |                                  |
|----------------|----------------------------------|
| Appearance     | Tan Liquid                       |
| Odor           | Citrus                           |
| Odor threshold | Not determined or not available. |
| pH             | 2                                |

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|   |                                  |
|---|----------------------------------|
| 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:

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

### Incompatible Materials:

None known.

### Hazardous Decomposition Products:

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  |
|---------------------------------|----------------|---|
| Ethylene Glycol Monobutyl Ether | Dermal ATE     | LD50 Rabbit: 1100 mg/kg                             |
|                                 | Oral ATE       | LD50 Rat: 1200 mg/kg (Annex VI to the CLP)          |
|                                 | Inhalation ATE | LC50 Rat: 3 mg/L (4 hr [Vapor] Annex VI to the CLP) |



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| Name   | Route          | Result  |
|--|----------------|---|
| Benzenesulfonic acid, C10-16-alkyl derivatives   | inhalation     | LC50 Rat: >1.9 mg/L (4 h [aerosol])               |
|  | Dermal ATE     | LD50 Rabbit: 1100 mg/kg                           |
|  | Oral ATE       | LD50 Rat: 500 mg/kg                               |
| Orthophosphoric Acid   | inhalation     | LC50 Rat: 422.25 mg/L (4 hr [aerosol])            |
|  | oral           | LD50 Rat: 1530 mg/kg                              |
|  | dermal         | LD50 Rabbit: 2740 mg/kg                           |
| Orange, sweet, ext.  | oral           | LD50 Rat: >5000 mg/kg                             |
|  | dermal         | LD50 Rabbit: >5000 mg/kg                          |
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated | dermal         | LD50 Rat: >2000 mg/kg                             |
|  | oral           | LD50 Rat: >2000 mg/kg                             |
| Hydrogen chloride  | Inhalation ATE | LC50 Rat: 700 ppmV (4 hr [gas])                   |
| Ethylene oxide   | Inhalation ATE | LC50 Rat: 700 ppmV (4 hr (Gas))                   |
|  | Oral ATE       | LD50 Rat: 100 mg/kg                               |
| 1,4-dioxane  | oral           | LD50 Rat: 5150 mg/kg                              |
|  | dermal         | LD50 Rabbit: 7600 mg/kg                           |
|  | inhalation     | LC50 Rat: 9158 ppmV (4 hr - Vapor)                |
| Alcohols, C9-11, branched and linear, ethoxylated  | oral           | LD50 Rat: 3488 mg/kg                              |
|  | dermal         | LD50 Rabbit: > 2000 mg/kg                         |
|  | inhalation     | LC50 Rat: >1.6 mg/m <sup>3</sup> (4 hr [aerosol]) |

#### Skin Corrosion/Irritation

**Assessment:**

Causes skin irritation.

**Product Data:**

No data available.

**Substance Data:**

| Name   | Result                     |
|--|----------------------------|
| Orthophosphoric Acid                           | Causes severe skin burns.  |
| Ethylene Glycol Monobutyl Ether                | Causes skin irritation.    |
| Benzenesulfonic acid, C10-16-alkyl derivatives | Causes severe skins burns. |
| Orange, sweet, ext.                            | Causes skin irritation.    |
| Alcohols, C12-14-secondary, ethoxylated        | Causes skin irritation.    |
| Hydrogen chloride                              | 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:**

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| Name  | Result                         |
|---|--------------------------------|
| Orthophosphoric Acid                              | Causes serious eye damage.     |
| Ethylene Glycol Monobutyl Ether                   | Causes serious eye irritation. |
| Benzenesulfonic acid, C10-16-alkyl derivatives    | Causes serious eye damage.     |
| Alcohols, C12-14-secondary, ethoxylated           | Causes serious eye damage.     |
| Hydrogen chloride                                 | Causes serious eye damage.     |
| Ethylene oxide                                    | Causes serious eye damage.     |
| 1,4-dioxane                                       | Causes serious eye irritation. |
| Alcohols, C9-11, branched and linear, ethoxylated | Causes serious eye damage.     |

### Respiratory or Skin Sensitization

**Assessment:**

May cause an allergic skin reaction.

**Product Data:**

No data available.

**Substance Data:**

| Name                | Result                               |
|---------------------|--------------------------------------|
| Orange, sweet, ext. | May cause an allergic skin reaction. |

### Carcinogenicity

**Assessment:**

May cause cancer.

**Product Data:** No data available.

**Substance Data:**

| Name           | Species | Result  |
|----------------|---------|---|
| Ethylene oxide |         | May cause cancer.   |
| 1,4-dioxane    |         | May cause cancer. 1,4-dioxane is characterized as "likely to be carcinogenic to humans." This characterization is based on the following findings: (1) inadequate evidence of carcinogenicity in humans, and (2) sufficient evidence in animals (i.e., hepatic tumors in multiple species [three strains of rats, two strains of mouse, and in guinea pigs] mesotheliomas of the peritoneum, mammary, and nasal tumors have also been observed in rats following 2 years of oral exposure to 1,4- dioxane). U.S. Environmental Protection Agency's Integrated Risk Information System (IRIS). |

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

| Name   | Classification |
|--|----------------|
| Orthophosphoric Acid                           | Not Applicable |
| Ethylene Glycol Monobutyl Ether                | Group 3        |
| Benzenesulfonic acid, C10-16-alkyl derivatives | Not Applicable |

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|--|----------------|
| Orange, sweet, ext.  | Not Applicable |
| Alcohols, C12-14-secondary, ethoxylated  | Not Applicable |
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated | Not Applicable |
| Hydrogen chloride  | Group 3        |
| Ethylene oxide   | Group 1        |
| 1,4-dioxane  | Group 2B       |
| Alcohols, C9-11, branched and linear, ethoxylated  | Not Applicable |

### National Toxicology Program (NTP):

| Name   | Classification                                 |
|--|--|
| Orthophosphoric Acid   | Not Applicable                                 |
| Ethylene Glycol Monobutyl Ether  | Not Applicable                                 |
| Benzenesulfonic acid, C10-16-alkyl derivatives   | Not Applicable                                 |
| Orange, sweet, ext.  | Not Applicable                                 |
| Alcohols, C12-14-secondary, ethoxylated  | Not Applicable                                 |
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated | Not Applicable                                 |
| Hydrogen chloride  | Not Applicable                                 |
| Ethylene oxide   | Known to be human carcinogens                  |
| 1,4-dioxane  | Reasonably anticipated to be human carcinogens |
| Alcohols, C9-11, branched and linear, ethoxylated  | Not Applicable                                 |

**OSHA Carcinogens:** Not applicable

### Germ Cell Mutagenicity

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

**Product Data:**

No data available.

**Substance Data:**

| Name           | Result                     |
|----------------|----------------------------|
| 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:**

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

### Specific Target Organ Toxicity (Single Exposure)

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

**Product Data:**

No data available.

**Substance Data:**

| Name              | Result  |
|-------------------|---|
| Hydrogen chloride | May cause respiratory irritation.                                       |
| Ethylene oxide    | May cause respiratory irritation.<br>May cause drowsiness or dizziness. |
| 1,4-dioxane       | May cause respiratory irritation.                                       |

### 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. |

### Aspiration toxicity

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

**Product Data:**

No data available.

**Substance Data:**

| Name                | Result                                       |
|---------------------|--|
| Orange, sweet, ext. | Maybe fatal if swallowed and enters airways. |

### 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:**

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| Name   | Result   |
|--|--|
| Ethylene Glycol Monobutyl Ether  | Aquatic Invertebrates EC50 Daphnia magna: 1550 mg/L (48 hr [mobility])                                   |
|  | Fish LC50 Oncorhynchus mykiss: 1474 mg/L (96 hr)   |
|  | Aquatic Plants EC50 Raphidocelis subcapitata: 1840 mg/L (72 hr [Growth rate])                            |
| Orthophosphoric Acid   | Aquatic Invertebrates EC50 Daphnia magna: > 100 mg/L (48 hr [immobilization])                            |
|  | Aquatic Plants EC50 Desmodesmus subspicatus: > 100 mg/L (72 hr [growth rate])                            |
|  | Fish LC50 Oryzias latipes: 100 mg/L (96 hr)  |
| Orange, sweet, ext.  | Aquatic Plants EC50 Desmodesmus subspicatus: 150 mg/L (72 hr [EL50-growth rate])                         |
|  | Aquatic Invertebrates EC50 Daphnia magna: 1.1 mg/L (48 hr [EL50-mobility])                               |
|  | Fish LC50 Danio rerio: 5.65 mg/L (96 hr [LL50])  |
| Benzenesulfonic acid, C10-16-alkyl derivatives   | Aquatic Invertebrates EC50 Daphnia magna: >1000 mg/L (48hr [mobility] Read-across)                       |
|  | Aquatic Plants EC50 Raphidocelis subcapitata: >1000 mg/L (72 hr [growth rate] Read-across)               |
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated | Fish LC50 Poecilia reticulata: > 100 mg/L (96 hr)  |
|  | Aquatic Invertebrates EC50 Daphnia magna: > 100 mg/L (48 hr [mobility])                                  |
|  | Aquatic Plants EC50 Desmodesmus subspicatus: >100 mg/L (72 hr [growth rate, Read-across substance data]) |
| 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)  |
| 1,4-dioxane  | Fish LC50 Pimephales promelas: 9850 mg/L (96 hr)   |
|  | Aquatic Invertebrates EC50 Daphnia magna: >1000 mg/L (48 hr)   |
|  | Aquatic Plants EC50 Pseudokirchneriella subcapitata: >1000 mg/L (72 hr)                                  |
| Alcohols, C9-11, branched and linear, ethoxylated  | Fish LC50 Oncorhynchus mykiss: 5 - 7 mg/L (96 hr)  |
|  | Aquatic Invertebrates EC50 Daphnia magna: 2.5 mg/L (48 hr [mobility])                                    |
|  | Aquatic Plants EC50 Raphidocelis subcapitata: 1.4 mg/L (96 hr [cell number])                             |

#### Chronic (Long-Term) Toxicity

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

**Product Data:** No data available.

#### Substance Data:

| Name   | Result   |
|--|--|
| Ethylene Glycol Monobutyl Ether  | Fish NOEC Danio rerio: > 100 mg/L (21 d [markers for endocrine disruptive effects])                          |
|  | Aquatic Invertebrates NOEC Daphnia magna: 100 mg/L (21 d [reproduction])                                     |
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated | Fish NOEC Salt water fish: 13,671.586 mg/L (28 d [mortality])  |
|  | Aquatic Invertebrates NOEC Daphnia magna: 17,475.27 mg/L (21 d [immobilisation, Read-across substance data]) |

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| Name  | Result  |
|---|---|
| 1,4-dioxane                                       | Fish NOEC Pimephales promelas: 145 mg/L (32 d)  |
|   | Aquatic Invertebrates NOEC Daphnia magna: 1000 mg/L (21 d)  |
| Alcohols, C9-11, branched and linear, ethoxylated | Fish NOEC Pimephales promelas: 0.28 mg/L (30 d [mortality, Read-across substance data])               |
|   | Aquatic Invertebrates NOEC Daphnia magna: 0.77 mg/L (21 d [reproduction, Read-across substance data]) |

### Persistence and Degradability

**Product Data:** No data available.

#### Substance Data:

| Name   | Result   |
|--|--|
| Benzenesulfonic acid, C10-16-alkyl derivatives   | Under test conditions no biodegradation observed.  |
| Orthophosphoric Acid   | Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.                                 |
| Orange, sweet, ext.  | The substance is readily biodegradable. 75% degradation in water, measured by O2 consumption, after 28 days.                                     |
| Ethylene Glycol Monobutyl Ether  | The substance is readily biodegradable. 90.4% degradation, measured by CO2 evolution, after 28 days.   |
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated | The substance is readily biodegradable. 74.85% degradation in water, measured by O2 consumption, after 28 days.                                  |
| Hydrogen chloride  | Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.                                 |
| Ethylene oxide   | Readily biodegradable (96% degradation after 28 days, measured by TOC removal).  |
| 1,4-dioxane  | Not readily biodegradable (< 10 % degradation after 29 days, measured by CO2 evolution).   |
| Alcohols, C9-11, branched and linear, ethoxylated  | The substance is readily biodegradable. 72% degradation in water, measured by inorganic C analysis, after 28 days (Read-across substance data).. |

### Bioaccumulative Potential

**Product Data:** No data available.

#### Substance Data:

| Name   | Result   |
|--|--|
| Ethylene Glycol Monobutyl Ether  | The substance is not expected to bioaccumulate (log Kow = 0.83).   |
| Orthophosphoric Acid   | Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance. |
| Orange, sweet, ext.  | The substance has the potential to bioaccumulate (BCF: 261 - 395 L/kg, basis- whole body w.w., QSAR substance data).                 |
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated | The substance is not expected to bioaccumulate (log Pow=0.2 at 30 °C & BCF= 3.162 L/kg at 25 °C, basis- whole body w.w.).            |
| Hydrogen chloride  | Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance. |
| Ethylene oxide   | Low potential for bioaccumulation (logKow = -0.3).   |

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| Name  | Result   |
|---|--|
| 1,4-dioxane                                       | Does not accumulate in aquatic organisms (mean BCF: 0.45).   |
| Alcohols, C9-11, branched and linear, ethoxylated | The substance has the potential to bioaccumulate (log Pow=3.3 - 3.73 & BCF= 237 L/kg, Read-across substance data). |

#### Mobility in Soil

**Product Data:** No data available.

##### Substance Data:

| Name   | Result  |
|--|---|
| Orthophosphoric Acid   | Mobility in soil assessment based on KOC/Kd values are not relevant for inorganic compounds such as this substance.                       |
| Orange, sweet, ext.  | The parameter is not tested because the substance and its relevant degradation products decompose rapidly.                                |
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated | The substance is mobile, therefore adsorption to soil is not expected (log Koc= 1.857 dimensionless at 25 °C).                            |
| Hydrogen chloride  | Mobility in soil assessment based on KOC/Kd values are not relevant for inorganic compounds such as this substance.                       |
| 1,4-dioxane  | Significant adsorption to solid soil phase is not expected (calculated log Koc: 0.51 at 25 °C).   |
| Alcohols, C9-11, branched and linear, ethoxylated  | The substance is moderately mobile, therefore, moderate adsorption to soil is expected (log Koc=2.7 - 3.5 at 25 °C, QSAR substance data). |

#### 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:

|  |  |
|--|--|
| Orange, sweet, ext.  | The substance is not PBT.  |
| Ethylene Glycol Monobutyl Ether  | The substance is not PBT.  |
| Orthophosphoric Acid   | PBT assessment does not apply to inorganic compounds such as this substance. |
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated | The substance is not PBT.  |
| Hydrogen chloride  | PBT assessment does not apply to inorganic compounds such as this substance. |
| Ethylene oxide   | This substance is not PBT.   |
| 1,4-dioxane  | Under assessment as Persistent, Bioaccumulative and Toxic (PBT list).        |
| Alcohols, C9-11, branched and linear, ethoxylated  | The substance is not PBT.  |

###### vPvB assessment:

|                                 |   |
|---------------------------------|---|
| Orange, sweet, ext.             | The substance is not vPvB.  |
| Ethylene Glycol Monobutyl Ether | The substance is not vPvB.  |
| Orthophosphoric Acid            | vPvB assessment does not apply to inorganic compounds such as this substance. |

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|  |   |
|--|---|
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated | The substance is not vPvB.  |
| Hydrogen chloride  | vPvB assessment does not apply to inorganic compounds such as this substance. |
| Ethylene oxide   | This substance is not vPvB.   |
| 1,4-dioxane  | This substance is not vPvB.   |
| Alcohols, C9-11, branched and linear, ethoxylated  | The substance is not vPvB.  |

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

## SECTION 13: Disposal Considerations

### Disposal Methods:


Contact a license professional to dispose of all unused product. It is the responsibility of the waste generator to properly dispose of all waste materials.

### Contaminated packages:

Not determined or not applicable.

## SECTION 14: Transport Information

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

|                               |   |
|-------------------------------|---|
| UN Number                     | 1760  |
| UN Proper Shipping Name       | Corrosive Liquid, N.O.S. Hydrochloric Acid, Phosphoric acid                             |
| UN Transport Hazard Class(es) | 8  |
| Packing Group                 | III   |
| Environmental Hazards         | None  |
| Special Precautions for User  | None  |
| Additional Information        | 55  |

### International Maritime Dangerous Goods (IMDG)

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

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

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

|           |                   |        |
|-----------|-------------------|--------|
| 7647-01-0 | Hydrogen chloride | Listed |
| 75-21-8   | Ethylene oxide    | Listed |

#### SARA Section 313 Toxic Chemicals:

|           |                                 |        |
|-----------|---------------------------------|--------|
| 111-76-2  | Ethylene Glycol Monobutyl Ether | Listed |
| 7647-01-0 | Hydrogen chloride               | Listed |
| 75-21-8   | Ethylene oxide                  | Listed |
| 123-91-1  | 1,4-dioxane                     | Listed |

#### CERCLA:

|           |                                 |        |          |
|-----------|---------------------------------|--------|----------|
| 7664-38-2 | Orthophosphoric Acid            | Listed | 5000 lbs |
| 111-76-2  | Ethylene Glycol Monobutyl Ether | Listed | N/A      |
| 7647-01-0 | Hydrogen chloride               | Listed | 5000 lbs |
| 75-21-8   | Ethylene oxide                  | Listed | 10 lbs   |
| 123-91-1  | 1,4-dioxane                     | Listed | 100 lbs  |

#### RCRA:

|          |                |        |      |
|----------|----------------|--------|------|
| 75-21-8  | Ethylene oxide | Listed | U115 |
| 123-91-1 | 1,4-dioxane    | Listed | U108 |

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

|         |                |        |
|---------|----------------|--------|
| 75-21-8 | Ethylene oxide | Listed |
|---------|----------------|--------|

#### Massachusetts Right to Know:

|           |                                 |        |
|-----------|---------------------------------|--------|
| 7664-38-2 | Orthophosphoric Acid            | Listed |
| 111-76-2  | Ethylene Glycol Monobutyl Ether | Listed |
| 7647-01-0 | Hydrogen chloride               | Listed |
| 75-21-8   | Ethylene oxide                  | Listed |
| 123-91-1  | 1,4-dioxane                     | Listed |

#### New Jersey Right to Know:

|           |                                 |        |
|-----------|---------------------------------|--------|
| 7664-38-2 | Orthophosphoric Acid            | Listed |
| 111-76-2  | Ethylene Glycol Monobutyl Ether | Listed |
| 7647-01-0 | Hydrogen chloride               | Listed |
| 75-21-8   | Ethylene oxide                  | Listed |
| 123-91-1  | 1,4-dioxane                     | Listed |

#### New York Right to Know:

|           |                                 |        |
|-----------|---------------------------------|--------|
| 7664-38-2 | Orthophosphoric Acid            | Listed |
| 111-76-2  | Ethylene Glycol Monobutyl Ether | Listed |
| 7647-01-0 | Hydrogen chloride               | Listed |

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|          |                |        |
|----------|----------------|--------|
| 75-21-8  | Ethylene oxide | Listed |
| 123-91-1 | 1,4-dioxane    | Listed |

### Pennsylvania Right to Know:

|           |                                 |        |
|-----------|---------------------------------|--------|
| 7664-38-2 | Orthophosphoric Acid            | Listed |
| 111-76-2  | Ethylene Glycol Monobutyl Ether | Listed |
| 7647-01-0 | Hydrogen chloride               | Listed |
| 75-21-8   | Ethylene oxide                  | Listed |
| 123-91-1  | 1,4-dioxane                     | Listed |

### California Proposition 65:

**⚠️WARNING:** This product can expose you to chemicals including Strong inorganic acid mists containing sulfuric acid and 1,4-dioxane which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**⚠️WARNING:** This product can expose you to Ethylene oxide; which is 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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**End of Safety Data Sheet**