

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: UltraPure Hand Hygiene Solution

Product Code: 202, 202-10L, 202-50

Intended Use of the Product

Use of the Substance/Mixture: Hand Soap Concentrate

Name, Address, and Telephone of the Responsible Party

Company

Meritech Systems, LLC

720 Corporate Circle

Suite K

Golden, Co 80401 USA

T 800-932-7707

www.meritech.com

Emergency Telephone Number

Emergency Number : 1-800-424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Eye Irrit. 2A H319

Aquatic Acute 3 H402

Aquatic Chronic 3 H412

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :



Signal Word (GHS-US) :

Warning

Hazard Statements (GHS-US) :

H319 - Causes serious eye irritation

H402 - Harmful to aquatic life

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements (GHS-US) :

P264 - Wash thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Eye protection.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

Other Hazards

Other Hazards Not Contributing to the Classification: When heated to decomposition, emits toxic fumes.

Unknown Acute Toxicity (GHS-US) Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Mixture

| Name | Product identifier | % (w/w) | Classification (GHS-US) |
|------------------------------|---------------------|---------|--|
| Water | (CAS No) 7732-18-5 | 30-40 | Not classified |
| Alcohols, C9-11, ethoxylated | (CAS No) 68439-46-3 | <2% | Skin Irrit. 3, H316 Eye Irrit. 2A, H319 |

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| | | | |
|---|---------------------|-----|--|
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | (CAS No) 68424-85-1 | <2% | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| 1-Decanaminium, N,N-dimethyl-N-octyl-, chloride | (CAS No) 32426-11-2 | <2% | Skin Corr. 1B, H314 Eye Dam. 1, H318 |
| 1-Octanaminium, N,N-dimethyl-N-octyl-, chloride | (CAS No) 5538-94-3 | <1% | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 |
| Didecyldimethylammonium chloride | (CAS No) 7173-51-5 | <1% | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |
| Cocoamidopropyl HydroxySultaine | (CAS No) 68139-30-0 | <5% | Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |
| Tetrasodium EDTA | (CAS No) 64-02-8 | <1% | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Dam. 1, H318 Aquatic Acute 2, H401 |
| Lanolin, ethoxylated | (CAS No) 61790-81-6 | <2% | Skin Irrit. 3, H316 Eye Irrit. 2B, H320 |

Full text of H-phrases: see section 16.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation persists. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes serious eye irritation.

Inhalation: N/A.

Skin Contact: N/A.

Eye Contact: Causes serious eye irritation.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Not available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Not flammable.

Unsuitable Extinguishing Media: Not flammable.

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Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: When heated to decomposition, emits toxic fumes (carbon dioxide, carbon monoxide, nitrogen oxides, hydrogen chloride).

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂), hydrogen chloride, nitrogen oxides.

Other information: Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid contact with eyes.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: None.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: None.

Environmental Precautions

Prevent entry to storm sewers, streams, lakes, and other public waters. Avoid release to the environment. Product must be discharged into a sanitary sewer.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents such as clay, sand, etc. to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately. Place spilled material into container for proper disposal.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: When heated to decomposition, emits toxic fumes.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from extremely high or low temperatures, incompatible materials.

Incompatible Materials: Strong oxidizers.

Special Rules on Packaging: Keep only in original container.

Specific End Use(s)

Hand soap.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains be available in the immediate vicinity of any potential exposure.

Ensure all national/local regulations are observed.

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Personal Protective Equipment: Protective goggles.



Materials for Protective Clothing: None needed.

Hand Protection: N/A.

Eye Protection: Chemical goggles.

Skin and Body Protection: N/A.

Respiratory Protection: N/A.

Other Information: N/A.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

| | | |
|--|---|---|
| Physical State | : | Viscous liquid |
| Appearance | : | Clear, Colorless |
| Odor | : | Mild |
| Odor Threshold | : | Not available |
| pH | : | 6.0 – 8.0 |
| Relative Evaporation Rate (butylacetate=1) | : | Not available |
| Melting Point | : | Not available |
| Freezing Point | : | Not available |
| Boiling Point | : | 100°C (212°F) |
| Flash Point | : | None |
| Auto-ignition Temperature | : | None |
| Decomposition Temperature | : | Not available |
| Flammability (solid, gas) | : | Not available |
| Lower Flammable Limit | : | Not available |
| Upper Flammable Limit | : | Not available |
| Vapor Pressure | : | Not available |
| Relative Vapor Density at 20°C | : | Not available |
| Specific Gravity | : | 1.00 |
| Solubility | : | Complete. |
| Partition coefficient: n-octanol/water | : | Not available |
| Viscosity | : | Not available |
| Explosion Data – Sensitivity to Mechanical Impact | : | Not expected to present an explosion hazard due to mechanical impact. |
| Explosion Data – Sensitivity to Static Discharge | : | Not expected to present an explosion hazard due to static discharge. |

SECTION 10: STABILITY AND REACTIVITY

Reactivity: When heated to decomposition, emits toxic fumes.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Extremely high or low temperatures. Incompatible materials.

Incompatible Materials: Strong oxidizers.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂), hydrogen chloride, nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified.

LD50 and LC50 Data: Not available.

Skin Corrosion/Irritation: Not classified. **pH:** 6.0 - 8.0

Serious Eye Damage/Irritation: Causes serious eye irritation. **pH:** 6.0 - 8.0

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Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

Teratogenicity: Not available.

Carcinogenicity: Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): Not classified.

Aspiration Hazard: Not classified.

Symptoms/Injuries After Inhalation: N/A.

Symptoms/Injuries After Skin Contact: N/A.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

| Water (7732-18-5) | |
|---|--------------|
| LD50 Oral Rat | >90000 mg/kg |
| Tetrasodium EDTA (64-02-8) | |
| LD50 Oral Rat | 1780 mg/kg |
| ATE US (dust, mist) | 1.50 mg/l/4h |
| Alcohols, C9-11, ethoxylated (68439-46-3) | |
| LD50 Oral Rat | >3,300 |
| Didecyldimethylammonium chloride (7173-51-5) | |
| LD50 Oral Rat | 329 mg/kg |
| LD50 Dermal Rat | 2001 mg/kg |

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Not classified.

| Tetrasodium EDTA (64-02-8) | |
|--|---|
| LC50 Fish 1 | 41 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| LC50 Fish 2 | 59.8 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| ErC50 (algae) | 2.77 mg/l (72 h - Species: Desmodesmus subspicatus) |
| Alcohols, C9-11, ethoxylated (68439-46-3) | |
| LC50 Fish 1 | 1-10 mg/l (Exposure time: 96 h - Species: P. Promelas) |
| EC50 Daphnia 1 | 1-10 mg/l (48 h - Species: Daphnia magna) |

Persistence and Degradability

| UltraPure Hand Hygiene Solution | |
|--|---|
| Persistence and Degradability | May cause long-term adverse effects in the environment. |

Bioaccumulative Potential

| UltraPure Hand Hygiene Solution | |
|--|-------------------|
| Bioaccumulative Potential | Not established. |
| Tetrasodium EDTA (64-02-8) | |
| Log Pow | 5.01 (calculated) |

Mobility in Soil: Not available.

Other Adverse Effects

Other Information: Not available.

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SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Ecology – Waste Materials: This material is hazardous to the aquatic environment. Prevent entry into storm sewers, streams, lakes and other public water ways.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT : Not regulated for transport.

14.2 In Accordance with IMDG : Not regulated for transport.

14.3 In Accordance with IATA : Not regulated for transport.

14.4 In Accordance with TDG : Not regulated for transport.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

| | |
|---|---------------------------------|
| UltraPure Hand Hygiene Solution | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
| Water (7732-18-5) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Cellulose, 2-hydroxyethyl ether (9004-62-0) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Tetrasodium EDTA (64-02-8) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Alcohols, C9-11, ethoxylated (68439-46-3) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Lanolin, ethoxylated (61790-81-6) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| 1-Decanaminium, N,N-dimethyl-N-octyl-, chloride (32426-11-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Didecyldimethylammonium chloride (7173-51-5) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| 1-Octanaminium, N,N-dimethyl-N-octyl-, chloride (5538-94-3) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |

US State Regulations

| | |
|---|--|
| Tetrasodium EDTA (64-02-8) | |
| U.S. - Texas - Effects Screening Levels - Long Term | |
| U.S. - Texas - Effects Screening Levels - Short Term | |
| Lanolin, ethoxylated (61790-81-6) | |
| RTK - U.S. - New Jersey - Right to Know Hazardous Substance List | |
| RTK - U.S. - Pennsylvania - RTK (Right to Know) List | |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1) | |
| U.S. - Texas - Effects Screening Levels - Long Term | |
| U.S. - Texas - Effects Screening Levels - Short Term | |
| Didecyldimethylammonium chloride (7173-51-5) | |
| U.S. - Texas - Effects Screening Levels - Long Term | |
| U.S. - Texas - Effects Screening Levels - Short Term | |

Canadian Regulations

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| |
|---|
| Water (7732-18-5) |
| Listed on the Canadian DSL (Domestic Substances List) inventory. |
| Cellulose, 2-hydroxyethyl ether (9004-62-0) |
| Listed on the Canadian DSL (Domestic Substances List) inventory. |
| Tetrasodium EDTA (64-02-8) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Alcohols, C9-11, ethoxylated (68439-46-3) |
| Listed on the Canadian DSL (Domestic Substances List) inventory. |
| Lanolin, ethoxylated (61790-81-6) |
| Listed on the Canadian DSL (Domestic Substances List) inventory. |
| 1-Octanaminium, N,N-dimethyl-N-octyl-, chloride (5538-94-3) |
| Listed on the Canadian DSL (Domestic Substances List) inventory. |
| 1-Decanaminium, N,N-dimethyl-N-octyl-, chloride (32426-11-2) |
| Listed on the Canadian DSL (Domestic Substances List) inventory. |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1) |
| Listed on the Canadian DSL (Domestic Substances List) inventory. |
| Didecyldimethylammonium chloride (7173-51-5) |
| Listed on the Canadian DSL (Domestic Substances List) inventory. |

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date : 11/10/2022
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

| | |
|---------------------------|--|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhalation) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment - Acute Hazard Category 1 |
| Aquatic Acute 2 | Hazardous to the aquatic environment - Acute Hazard Category 2 |
| Aquatic Acute 3 | Hazardous to the aquatic environment - Acute Hazard Category 3 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment - Chronic Hazard Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment - Chronic Hazard Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - Chronic Hazard Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Eye Irrit. 2B | Serious eye damage/eye irritation Category 2B |
| Skin Corr. 1B | Skin corrosion/irritation Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| Skin Irrit. 3 | Skin corrosion/irritation Category 3 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H302 | Harmful if swallowed |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H316 | Causes mild skin irritation. |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H320 | Causes eye irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |

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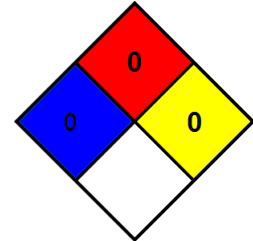
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| | |
|------|--|
| H400 | Very toxic to aquatic life |
| H401 | Toxic to aquatic life |
| H402 | Harmful to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H411 | Toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

NFPA Health Hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA Fire Hazard : 0 - Materials that will not burn.

NFPA Reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 0 Minimal Hazard - No significant risk to health.

Flammability : 0 - Minimal Hazard.

Physical : 0 - Minimal Hazard.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS SDS 2015 (U.S., Can., Mex.)