

## SECTION 1: IDENTIFICATION

### Product Identifier

**Product Form:** Mixture

**Product Name:** UPX Hand Hygiene Solution

**Product Code:** UPX (UPX-2K, UPX-4K, UPX-12K)

### Intended Use of the Product

**Use of the Substance/Mixture:** Hand soap concentrate - CleanTech

### 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

### Emergency Telephone Number

**Emergency Number** : 1-800-424-9300 (CHEMTREC) Meritech Account #CCN814781

## 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	1-10	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	1-10	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	1-10	Skin Corr. 1B, H314 Eye Dam. 1, H318
1-Octanaminium, N,N-dimethyl-N-octyl-, chloride	(CAS No) 5538-94-3	1-5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400
Didecyldimethylammonium chloride	(CAS No) 7173-51-5	1-5	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	1-10	Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Tetrasodium EDTA	(CAS No) 64-02-8	1-4	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	5-10	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, CO<sub>2</sub>), hydrogen chloride, nitrogen oxides.

**Other information:** Do not allow run-off from firefighting 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

<b>Physical State</b>	:	Viscous liquid
<b>Appearance</b>	:	Clear, Colorless
<b>Odor</b>	:	Mild
<b>Odor Threshold</b>	:	Not available
<b>pH</b>	:	6.0 – 8.0
<b>Relative Evaporation Rate (butylacetate=1)</b>	:	Not available
<b>Melting Point</b>	:	Not available
<b>Freezing Point</b>	:	Not available
<b>Boiling Point</b>	:	100°C (212°F)
<b>Flash Point</b>	:	Not available
<b>Auto-ignition Temperature</b>	:	None
<b>Decomposition Temperature</b>	:	Not available
<b>Flammability (solid, gas)</b>	:	Not available
<b>Lower Flammable Limit</b>	:	Not available
<b>Upper Flammable Limit</b>	:	Not available
<b>Vapor Pressure</b>	:	Not available
<b>Relative Vapor Density at 20°C</b>	:	Not available
<b>Specific Gravity</b>	:	1.00
<b>Solubility</b>	:	Complete.
<b>Partition coefficient: n-octanol/water</b>	:	Not available
<b>Viscosity</b>	:	Not available
<b>Explosion Data – Sensitivity to Mechanical Impact</b>	:	Not expected to present an explosion hazard due to mechanical impact.
<b>Explosion Data – Sensitivity to Static Discharge</b>	:	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, CO<sub>2</sub>), 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:**

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

## **SECTION 12: ECOLOGICAL INFORMATION**

### **Toxicity**

**Ecology - General:** Not classified.

<b>Tetrasodium EDTA (64-02-8)</b>	
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)
<b>Alcohols, C9-11, ethoxylated (68439-46-3)</b>	
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**

<b>UPX Hand Hygiene Solution</b>	
Persistence and Degradability	May cause long-term adverse effects in the environment.

### **Bioaccumulative Potential**

<b>UPX Hand Hygiene Solution</b>	
Bioaccumulative Potential	Not established.
<b>Tetrasodium EDTA (64-02-8)</b>	
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:

UN Number:	UN1903
UN proper shipping name	Disinfectants, Liquid Corrosive, N.O.S., 8, PGII (Quaternary Ammonium Compound)
Transport hazard class(es)	
Class	8
Packing group	II

14.2 In Accordance with IMDG :

14.3 In Accordance with IATA :

14.4 In Accordance with TDG :

### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

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

#### US State Regulations

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

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U.S. - Texas - Effects Screening Levels - Long Term U.S. - Texas - Effects Screening Levels - Short Term
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### Canadian Regulations

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

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

**Revision date** : 08/10/2021  
**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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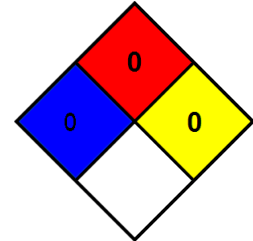
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.)