



# SAFETY DATA SHEET

## 1. Identification

**Product Identifier** Refresh

**Other means of identification**  
**Product code** CU-0001

**Recommended use** Fruit and vegetable wash.

**Recommended restrictions** None.

**Manufacturer information**  
**Company name** Chemical Universe, Inc.  
**Address** 1133 Saline St.  
North Kansas City, MO 64116  
**Telephone** (816) 471-3602  
**Fax** (816) 474-3302

**Emergency phone number** PERS (800) 633-8253  
24 hour Emergency (800) 633-8253

## 2. Hazard(s) Identification

**Physical hazards** Not classified.  
**Health hazards** Not classified.  
**Environmental hazards** Not classified  
**OSHA defined hazards** Not listed.  
**Label elements** None  
**Signal word** None.  
**Hazard statement** None.  
**Precautionary statement**  
**Prevention**  
**Response**  
**Storage**  
**Disposal**  
**Hazard(s) not otherwise classified (HNOC)** None  
**Supplemental information** None

## 3. Composition/information on ingredients

### Mixtures

Chemical name	CAS number	%
Polysorbate 20	9005-64-5	1-5
Glycerin	56-81-5	1-5
Citric acid	77-92-9	1-2
Other components below reportable levels		88-100

## 4. First-aid measures

**Inhalation** Move to fresh air if irritated.  
**Skin contact** Rinse with water.  
**Eye contact** Rinse with water for at least 15 minutes.  
**Ingestion** Rinse mouth.  
**Most important** Dermatitis. Rash.

**symptoms/effects, acute and delayed**

**Indication of immediate medical attention and special treatment needed** Provide general support measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information** This type of detergent is generally non-toxic. It is meant to be in direct contact with skin.

## 5. Fire-fighting measures

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media** None known

**Specific hazards arising from the chemical** During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters** Self-contained breathing apparatus and full protecting clothing must be worn in case of fire.

**Fire-fighting equipment/instructions** Move containers from fire area if you can do so without risk.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** No unusual fire or explosion hazards noted.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Wear appropriate protective equipment and clothing during clean-up.

**Methods and materials for containment and cleaning up** Caution – spillages may be slippery

Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas.

Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original container for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid discharge into areas not consistent with package labeling.

## 7. Handling and storage

**Precautions for safe handling** Avoid contact with eye. Avoid prolonged exposure. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities** Store in original tightly closed container. Do not store in extreme conditions.

## 8. Exposure controls/personal protection

**Occupational exposure limits**  
None

**Biological limit values**  
None

<b>Appropriate engineering controls</b>	None.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Avoid contact with eyes.
<b>Skin protection</b>	
<b>Hand protection</b>	None.
<b>Other</b>	None.
<b>Respiratory protection</b>	Respiratory protection not required.
<b>Thermal hazards</b>	None.
<b>General hygiene considerations</b>	None.

## 9. Physical and chemical properties

### Appearance

<b>Physical State</b>	Clear liquid.
<b>Color</b>	Colorless to light yellow.
<b>Odor</b>	Characteristic.
<b>Odor threshold</b>	Not available.
<b>pH</b>	2-3.
<b>Melting/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	>212°F (100°C)
<b>Flash point</b>	>385°F (196°C)
<b>Evaporation rate</b>	Not available.
<b>Flammability</b>	Not available.
<b>Flammability Limits</b>	
<b>Upper</b>	Not available.
<b>Lower</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Specific gravity (water=1)</b>	1.01
<b>Solubility in water</b>	Soluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	None.
<b>Viscosity</b>	Not available.

## 10. Stability and reactivity

<b>Reactivity</b>	This product is stable and non-reactive under normal conditions of use.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Heat, flames can cause product to decompose.
<b>Incompatible materials</b>	None.
<b>Hazardous decomposition products</b>	Carbon dioxide, carbon monoxide.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Inhalation</b>	Expected to be a low inhalation hazard.
<b>Skin contact</b>	Prolonged skin contact may cause slight irritation.
<b>Eye contact</b>	Repeated and/or prolonged eye contact may cause slight irritation.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Dermatitis. Rash.
<b>Acute toxicity</b>	Not established.

<b>Product</b>	<b>Route and Species</b>	<b>LD<sub>50</sub></b>
Refresh (CAS mixture)		
<b>Acute</b>	<i>Oral, rat</i>	>5,000 mg/kg estimated

\*Estimates for product may be based on additional component data not shown

<b>Skin corrosion/irritation</b>	Not classified.
<b>Serious eye damage/irritation</b>	Not classified.
<b>Respiratory sensitization</b>	Not classified.
<b>Skin sensitization</b>	Not classified.
<b>Germ cell mutagenicity</b>	Not classified.
<b>Carcinogenicity</b>	Not considered a carcinogen.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	
Not Listed.	
<b>Reproductive toxicity</b>	Not classified.
<b>Specific target organ toxicity – single exposure</b>	Not classified.
<b>Specific target organ toxicity – repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not considered an aspiration hazard.

## 12. Ecological information

<b>Ecotoxicity</b>	No information.
<b>Persistence and degradability</b>	Not available.
<b>Bioaccumulative potential</b>	Potential to bioaccumulate is low.
<b>Mobility in soil</b>	Not available.
<b>Other adverse effects</b>	Not available.

## 13. Disposal considerations

<b>Disposal instructions</b>	Dispose of in accordance with local regulations.
<b>Local disposal regulations</b>	None.
<b>Waste from residues/unused product</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be rinsed with water and recycled.

## 14. Transport information

### DOT

Not regulated as dangerous goods.

## 15. Regulatory information

### US federal regulations

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 304 Emergency release notification

Not listed.

#### SARA 311/312 Hazard Categories

Immediate Hazard - No

Delayed Hazard – No

Fire Hazard – No

Pressure Hazard – No

Reactivity Hazard – No

#### SARA 313 (TRI reporting)

Not listed.

## 16. Other information, including date of preparation or last revision

<b>Issue date</b>	12/12/2017
<b>Revision date</b>	12/12/2017
<b>Version #</b>	1
<b>HMIS® ratings</b>	Health: 0 Flammability: 0 Physical hazard: 0
<b>NFPA ratings</b>	Health: 0 Flammability: 0 Instability: 0
<b>Disclaimer</b>	The information provided in this Safety Data Sheet is correct to the best of our knowledge, and have been obtained from resources believed to be reliable. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information related only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified by the text.
<b>Revision information</b>	First issue.