

# SAFETY DATA SHEET

Date Entered: 18/06/23 Modified: NA

**1**

## PRODUCT AND COMPANY IDENTIFICATION

English

(1.) Trade Name: **SERUM CU**(2.) Chemical Name: 20% Hydrogen Peroxide Formulated

(3.) Product Number: 5-222-04

(4.) Chemical Family: Organic Cleaner for pet urine stain and odor removal, organic mold stain remover

(5.) Chemical Formula: Proprietary

Importer: Restoration Innovations Pty Ltd  
 3/22 Industry Drive,  
 Tweed Heads South,  
 NSW 2486  
 07 5523 0554

(6.) **Emergency Phone Number:** NSW Poisons Information Center 13 11 26**2**

## HAZARDS IDENTIFICATION

English

(1.) Hazardous Classification: Liquid Oxidizer (2.) Signal Word: Danger

(3.) Hazardous Statement: Oxidizing, harmful by inhalation, in contact with combustible materials may cause fire, causing burns, causes severe eye damage

(4.) Precautionary Labeling:

Harmful or fatal if swallowed. Causes severe eye injury. Avoid contact with skin causes the skin whitening and tingling. Do not ingest. Keep out of reach of children. Container tightly closed when not in use. Store container in cool dry areas. Store at temperatures below 100F/37.7C. Do not dispose of the unused portions of watercourses, streams, rivers, estuaries and oceans. Do not reuse empty containers. Do not return unused in original packaging material.

**HAZARD CLASS**  
**5.1**

**UN NUMBER**  
**UN-2984**

**EMERGENCY PHONE**  
**13 11 26**

(5.) Description Other Hazards: not applicable

(6.) Unknown Toxicity: not applicable

**3**

## COMPOSITION/INFORMATION ON INGREDIENTS

Note: the list of all hazardous substances or CERCLA grreater 1% and carcinogens at 0.1% or greater.

Hazardous Substances

(1.) Ingrediente:	(2.) Nota	(3.) SARA 313	(4.) CAS #:	(5.) % range:	(6.) PEL:	(7.) LD50:	(7.) TLV:
Hydrogen Peroxide		No	7722-84-1	20.0%	1 ppm (PEL), 1.4 mg/m3 (PEL)	2000mg/kg	n/d
Dipropylene Glycol Monomethyl Ether		No	34590-94-8	3-8	N/A	5500 mg/kg	N/A
Water	1	No	07732-18-5	74	non hazardous	non hazardous	non hazardous

# SAFETY DATA SHEET

## SERUM CU

Balance Nonhazardous

**Note:** Treated, polished and filtered prior to use

### 4

### FIRST AID MEASURES

English

- (1.) Main entry routes into the body(s): \_\_\_\_\_ (2.) Eyes:  X  (3.) Skin:  X  (4.) Inhalation:  X  (5.) Ingestion: \_\_\_\_\_
- (6.) Acute Effects: \_\_\_\_\_
- (7.) Eyes: Rinse immediately with water for at least 15 minutes, lifting upper and lower eyelids intermittently while seeking immediate medical attention. Go immediately to the emergency room to receive treatment currently recommended.
- \_\_\_\_\_
- (8.) Skin: Mix a teaspoon of baking soda in 8 ounces of water and apply this solution to the affected area. Get medical attention if irritation occurs and persists.
- \_\_\_\_\_
- (9.) Inhalation: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, contact a physician. If breathing has stopped, administer artificial respiration.
- \_\_\_\_\_
- (10.) Ingestion: DO NOT induce vomiting. Loosen tight clothing. Give victim plenty of water to dilute stomach contents. Seek immediate medical attention.
- \_\_\_\_\_
- (11.) Acute Symptoms: Risk of permanent corneal injury and possible blindness if splashed in the eyes
- \_\_\_\_\_
- (12.) Note to Physician:  
Hydrogen peroxide concentrations in these is a strong oxidant. Direct contact with eyes may cause corneal damage especially if not washed immediately. Careful ophthalmologic assessment and the possibility of local corticosteroid therapy is recommended to be considered. Because the likelihood of corrosive effects on the GI tract after ingestion and the unlikelihood of systemic effects, attempts to pass the stomach through the induction of emesis or gastric lavage should be avoided. There is a remote possibility, however, that a nasogastric or orogastric tube may be necessary to reduce the severe distension due to gas formation.

### 5

### FIRE FIGHTING MEASURES

- (1.) Flammable Properties: THIS PRODUCT IS NOT flammable or combustible. It is a strong oxidant. Mixtures with combustible or flammable materials can ignite easily, burn fiercely or explode in contaminated and closed.
- \_\_\_\_\_

#### **Extinguishing media**

- (2.) Suitable Extinguishing Media:

**SMALL FIRE:** Use water only. Use large amounts of water and spray to cool containers. Evacuate the area. **LARGE FIRE:** Use water only. Evacuate immediately and close off surrounding area. Use self-contained breathing apparatus, pressure demand, MSHA / NIOSH and full protective gear. **TRANSPORTATION:** Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can safely. ALWAYS stay away from the ends of tanks. Flood fire area with water from a distance. Cool containers with flooding quantities of water until well after the fire is out. For massive fire, fight fire from maximum distance or use remote hoses and/or monitors. If this is not possible, withdraw from area and let it burn.

\_\_\_\_\_

- (3.) Unsuitable extinguishing media:

Do not use dry chemicals, CO<sub>2</sub>, Halon, foam or fire blanket

\_\_\_\_\_

#### **Protection of Fire Fighters**

- (4.) Protective Equipment:

A self contained / breathing full protective gear should be worn in fire conditions

\_\_\_\_\_

- (5.) Specific Hazards:

Oxidizer - Keep away from flammable and combustible materials. Residual hydrogen peroxide that is allowed to dry on organic materials such as paper, cotton fabrics, leather or other combustible materials may cause the material to ignite and cause fire. Runoff may create a risk of fire or explosion. Hydrogen peroxide decomposes on heating to produce oxygen gas, steam and heat.

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# SAFETY DATA SHEET

## SERUM CU

### 6

### ACCIDENTAL RELEASE MEASURES

English

- (1.) Personal Precautions: En caso de derrames grandes, siga todos los centros de respuesta de emergencia procedures
- (2.) Environmental Precautions: **SMALL SPILL:** Do not use combustible absorbents . Contain spill with non-combustible material like vermiculite, sand or earth. If material is spilled on the floor of wood or other combustible material , flush with plenty of water. If material is spilled on the floor or ground not fuel , allow the material to break down.  
**LARGE SPILL:** Stop leak immediately and deck drains . Turn off all power in the area of the spill. Turn on the fans if available. Put on appropriate personal protective equipment to protect all those involved in the cleanup. Use a water- resistant suit with hood and booties, gloves and chemical resistant boots , full face respirators with appropriate filters. Do not use combustible absorbents . Avoid contact with combustible materials such as paper, oil and clothing. Dike far ahead of the solution for disposal . If inside: Evacuate immediately closed and surroundings . Contact your local fire department and notify the appropriate authorities.
- (3.) Waste Disposal Method: This product may be diluted with water and held until degraded. The use of sodium bicarbonate accelerate the decontamination process. Solution should be neutralized to pH 7.0. Follow local, state and federal regulations for disposal.

### 7

### HANDLING AND STORAGE

- (1.) Storage: Store containers in a cool place out of direct sunlight and away from combustible materials. Store at temperatures below 37.7°C or 100°F. Store in original vented container. Do not mix with other chemicals.
- (2.) Handling: Use full face shield, impervious clothing, such as PVC, etc, and neoprene gloves and shoes. Avoid cotton, wool and leather. Avoid excessive heat and pollution. Contamination may cause decomposition and generation of oxygen gas which could lead to high pressures and possible rupture of the container. Hydrogen peroxide should be stored only in vented containers and transferred in the prescribed manner. Never return unused product to original container, empty drums should be triple rinsed with water before discarding. Utensils used for handling this product should only be made of glass, stainless steel, aluminum or plastic.
- (3.) Precautionary Labeling: Harmful or fatal if swallowed. Causes severe eye injury. Avoid contact with skin causes the skin whitening and tingling. Do not ingest. Keep out of reach of children. Container tightly closed when not in use. Store container in cool dry areas. Store at temperatures below 100F/37.7C. Do not dispose of the unused portions of watercourses, streams, rivers, estuaries and oceans. Do not reuse empty containers. Do not return unused in original packaging material.

### 8

### Exposure Controls/Personal Protection

- (1.) **Ventilation:** (2.) Local Exhaust:  (3.) General Exhaust:  (4.) None Required: \_\_\_\_\_
- (5.) **Personal Protection Equipment:**  
(6.) **Respirator Type:** (7.) Full Face Respirator: \_\_\_\_\_ (8.) Half Face Respirator:  (9.) Dust Particle Filter: \_\_\_\_\_
- Note: Spraying In Confined Areas: use 3M full face respirator with 60926 or equivalent cartridges (Organic Vapor / Acid Gas/P100 filter, 3MR600923). Spraying 100 sq.ft. or less: use half face respirator with above filters and chemical splash goggles. While HEPA vacuuming: use full face respirator with above filters because of residual peroxide evaporating could irritate eyes until hydrogen peroxide component is completely dry.
- (10.) **Gloves:** (11.) Natural rubber: \_\_\_\_\_ (12.) Plastic:  (13.) Nitril:  (14.) Neoprene:  (15.) Butyl: \_\_\_\_\_  
(16.) Other: \_\_\_\_\_
- (17.) **Eye Protection:** (18.) Glasses With Side Shields: \_\_\_\_\_ (19.) Full Face Shield: \_\_\_\_\_ (20.) Chemical Splash Goggles:   
(21.) Other: Full-face respirator when product is sprayed in confined areas

(22.) **Symbols Of PPE Required:**



CHEMICAL NAME:	ACGIH	OSHA
Hydrogen Peroxide	1 ppm (TWA)	1 ppm (PEL), 1.4 mg/m <sup>3</sup> (PEL)

(23.) **Engineering Controls:**

For use as a spotter, pre-spray and all purpose carpet and upholstery shampoo which only requires general exhaust ventilation with safety glasses and chemical resistant gloves. When product is to be sprayed with an airless paint sprayer, which aerosolizes the product, a full face respirator with full PPE is required.

# SAFETY DATA SHEET

SERUM CU

9

## PHYSICAL & CHEMICAL PROPERTIES

English

- (1.) Physical State: Liquid
- (2.) Appearance: Clear
- (3.) Odor: NONE
- (4.) Boiling Point: 212 °F 100 °C
- (5.) Freeze Point: 6 °F -14.7 °C
- (6.) Flash Point: No inflamable °F
- (7.) Specific Gravity: 1.05
- (8.) Density: 0.88 g/cm<sup>3</sup>
- (9.) pH Neat: 2.8
- (10.) pH 1%: 3.8
- (11.) % Solids: 0.1%
- (12.) % Volatiles: 99.9%
- (13.) Solubility In Water: Complete
- (14.) Vapor Pressure: n/d
- (15.) Vapor Density: n/d
- (16.) Evaporation Rate: > 1 (butyl acetate = 1)
- (17.) VOC Less Exempt: 0.0
- (18.) VOC As Packaged: <4 mg. / L by the EPA 8260 method volatile organic purge and trap GC / MS
- (19.) Viscosity: 1.0

10

## CHEMICAL STABILITY & REACTIVITY INFORMATION

- (1.) Thermal Stability: Stable
- (2.) Chemical Stability: Stable
- (3.) Condition To Avoid: Heat over 100 degrees F or 37.8 degrees C, non-ventilated containers
- (4.) Hazardous Decomposition Products: Oxygen, steam and heat
- (5.) Hazardous Polymerization: (A) May Occur:      (B) Will not occur: X
- (6.) Materials To Avoid: Materials with high pH, iron, salts, organic compounds, reducing agents, dust and debris, combustible materials
- (7.) Corrosive Action On Materials: oxidizer on iron
- (8.) Avoid: DANGER, when cold fogging. Remove or turn off all ignition sources such as pilot lights, start or stop electric motors, while fogging, electric heaters, gas heaters and anything else that could ignite the oxygen generated by aerosolization of this product.

11

## TOXICOLOGICAL INFORMATION

- (1.) Routs(s) of entry into the body: (2.) Eyes: X (3.) Skin: X (4.) Inhalation: X (5.) Ingestion:
- (2.) Eyes: Contact with the eyes from this product could result into severe damage and possibly blindness.
- (3.) Inhalation: Short term: difficulty in breathing with nausea. Long term: Asphyxiation could occur.
- (4.) Skin: **Incidental contact:** will cause skin to turn white and tingle. This condition will last 30 to 60 minutes. **Long Term Contact:** may cause blistering and skin damage.
- (5.) Ingestion: Harmful if swallowed. Large exposure could be fatal.
- (6.) Toxicity Data: Toxicity depends on length of time exposed, concentration of exposure and PPE controls in place at the time of exposure.

# SAFETY DATA SHEET

## SERUM CU

### (7.) Summary Of Health Effects:

**SKIN:** Immediate burning and tingling of the skin rarely possible blistering, skin turns white when in contact with the liquid. No long-term damage to the epidermis or dermis expected. The symptoms disappear within 30 to 60 minutes. No expected long-term damage.

**EYES:** hydrogen peroxide can cause permanent corneal damage resulting in severe damage and possibly blindness.

## 12

### ECOLOGICAL INFORMATION

English

#### (1.) Environment:

This product is harmless to the environment. It breaks down into water and oxygen. In fact, this product would be good for most of the vegetation as it releases oxygen into the soil as it degrades. When used indoors, it degrades rapidly into water and oxygen, leaving behind nothing toxic to humans. The non-active (less than .001% by weight of the product) is surfactant and is classified as GRAS (generally regarded as safe) by the U.S. Environmental Protection Agency (EPA) foaming.

## 13

### DISPOSAL CONSIDERATIONS

#### (1.) Waste Disposal:

This product can be neutralized with small amounts of baking soda or soda ash. Dispose of following federal, state and local laws.

#### (2.) Legislation:

None

## 14

### TRANSPORTATION INFORMATION

(1.) Indicate country agency/regulator that specifies requirements: U.S.A.-DOT

#### (2.) PROPER SHIPPING DESCRIPTION:

##### 5 GALLON CONTAINERS (18.927 LITRES) OR MORE PROPER SHIPPING DESCRIPTION



UN2984, Hydrogen peroxide, aqueous solution with not less than 8%, but less than 20%, (stabilized as necessary), 5.1, PG III, ERG#60, Item Name: Serum CU, Item Number: 5-222-05, Container: Pail, NMFC:48580-03

##### 4 X 1 GALLON (4 X 3.785 LITRES) CONTAINERS OR LESS LIMITED QUANTITY PROPER SHIPPING DESCRIPTION



Compounds, Cleaning, Liquid, LIMITED QUANTITY, Item Name: Serum CU, Item Number: 5-222-04, Container: Case, NMFC:48580-03

(3.) Hazard Class: 5.1 (4.) Hazard Number: UN2894 (5.) HazChem Code Number: n/a

(6.) Packaging Group: PGIII (7.) Emergency Response Code: ERG#60

(8.) Labels Required: Oxydizer (9.) Other Requirements: This product must be in containers that have vented closures or container may swell and rupture violently

(10.) Note: Product heated to or above 180°F (82.2°C) will produce large amounts of pure oxygen to possibly create an explosive condition. **DO NOT SEND THIS PRODUCT BY AIR. - SHIP GROUND ONLY**

# SAFETY DATA SHEET

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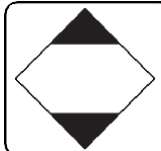
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# SAFETY DATA SHEET

## SERUM CU

# 15

## REGULATORY INFORMATION

English

### (1.) Poison Schedule:

A poison schedule number has not been allocated to this product

# 16

## OTHER INFORMATION

### (1.) Additional Information:

#### ACRONYMS :

ADB -Air Dry Basis

BEI - Biological Exposure Index ( s )

CAS # - Chemical Abstract Service number - used to uniquely identify chemical compounds

CNS - Central Nervous System

IARC - International Agency for Research on Cancer

M - moles per liter concentration unit

mg/m<sup>3</sup> - Milligrams per cubic meter

NOS - Not specified

pH - relates to hydrogen ion concentration using a scale of 0 ( high acidic) to 14 (very alkaline)

ppm = parts per million

TWA / ES - Time Weighted Average or Exposure Standard .

IBC Code - International Bulk Chemical Code

IMDG - International Maritime Dangerous Goods Code

#### HEALTH EFFECTS OF EXPOSURE :

Note that the effects of exposure to this product will depend on several factors including : the frequency and duration of use ; amount used ; effectiveness of control measures ; protective equipment used and method of application . Since it is impractical to prepare a Chem Alert report which would encompass all possible scenarios , it is anticipated that users assess the risks and apply control methods where appropriate .

### (2) Recommendations:

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only . Factors such as method of application, working environment , quantity used , product concentration and the availability of engineering controls should be considered before making the final selection of personal protective equipment .

### (3) Report Status:

This document has been prepared by Restoration Innovations importer of the product and serves as the manufacturer's safety data (SDS ) .

It is based on information concerning the product which has been provided by or obtained from wher products third party sources and is believed to represent the current state of knowledge about the safety measures and appropriate management for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from Restoration Innovations .

While Restoration Innovations has taken due care to include up -to-date information in this SDS accurate and makes no warranty as to the accuracy or completeness. So it is legally possible , Restoration Innovations will accept no responsibility for any loss , injury or damage ( including consequential loss ) suffered or incurred by any person as a result of their reliance on the information contained in this SDS