Revision: 1 Date: December 16, 2021

### **SAFETY DATA SHEET**

# **SECTION 1 - IDENTIFICATION**

Product identifier used on the label: ES21 RTU

Other means of Identification: ES21

Recommended use of the chemical and restrictions on use: For professional use only.

Manufacturer/Supplier: Charlotte Products Ltd.

**Address:** 2060 Fisher Dr.

Peterborough, ON K9J 6X6

**Telephone**: 705-740-2880 **Fax**: 705-745-1239

24 Hr. Emergency Tel. #: Infotrac 1-800-535-5053 (North America), 011-1-352-323-3500 (International)

## SECTION 2 - HAZARDS IDENTIFICATION

**Classification of the chemical:** Not a hazardous substance or mixture according to US Regulation 29 CFR 1910.1200 and the Canadian HPA.

Label elements:

Signal Word: Warning

#### Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P262 Do not get in eyes, on skin or on clothing.

P270 Do not eat, drink, or smoke when using the product.

P280 Wear protective gloves/protective clothing/eye protection/face protection

P314 Get medical advice/attention if you feel unwell
P402+404 Store in a dry place. Store in a closed container
P410+403 Protect from sunlight. Store in a well-ventilated place.

P501 Dispose of contents/container in accordance with local regulation

### Hazard pictogram(s)

None

Other hazards not otherwise classified: None Known

**Unknown Acute Toxicity:** 0

# **SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name, Common Name & Synonyms:	CAS#	Concentration %
Hydrogen Peroxide	7722-84-1	1-2.5
Methanesulphonic acid	75-75-2	1-2.5
Orthophosphoric acid	7664-38-2	0.5-1

<sup>\*\*</sup> If the chemical name/CAS # is "proprietary" and/or the weight % is shown as a range, this information had been withheld as a trade secret.

# **SECTION 4 - FIRST-AID MEASURES**

#### Description of first aid measures:

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs get medical advice/attention.

**If inhaled:** Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Most Important symptoms and effects, both acute and delayed: Causes serious eye irritation.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically

### **SECTION 5 - FIRE-FIGHTING MEASURES**

#### Extinguishing media:

Suitable extinguishing media: Water spray; Alcohol-resistant foam; Dry chemical

Unsuitable extinguishing media: High volume water jet

**Special hazards arising from the substance or mixture:** Heating or fire can release toxic gas.

Flammability classification: Not flammable

Hazardous combustion products: Carbon oxides, oxides of phosphorus other unidentified organic compounds.

Special protective equipment and precautions for firefighters:

**Protective equipment for fire-fighters:** Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

**Special fire-fighting procedures:** Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses. Dike for water control.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment, and emergency procedures:** All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and, upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

**Methods and material for containment and cleaning up:** Soak up with inert absorbent material. Do not use combustible absorbents, such as sawdust. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

**Special spill response procedures:** In case of a transportation accident, contact Infotrac 1-800-535-5053 (North America), 011-1-352-323-3500 (International). If a spill/release in the US in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the US (phone: 1-800-424-8802).

# **SECTION 7 - HANDLING AND STORAGE**

**Precautions for safe handling:** Handle in accordance with good industrial hygiene and safety practice. Use protective equipment recommended in section 8. Avoid contact with skin, eyes, or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling.

**Conditions for safe storage:** Keep container tightly closed and store in a cool, dry, and well-ventilated place. Keep out of reach of children.

Incompatible materials: Do not mix with other chemicals or cleaners

### SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:					
		ACGIH TLV		OSHA PEL	
Chemical Name	CAS#	TWA	STEL	PEL	STEL
Hydrogen Peroxide	7722-84-1	1 ppm	1 ppm	1 ppm	1 ppm
Orthophosphoric acid	7664-38-2	1 mg/m3	3 mg/m3		

#### **Exposure controls:**

**Ventilation and engineering measures:** Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

**Respiratory protection:** Not required with normal use. If airborne concentrations are above the permissible exposure limit or irritation occurs, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134). Advice should be sought from respiratory protection specialists.

**Skin protection:** Handle in accordance with good industrial hygiene and safety practice. The suitability for a specific workplace should be discussed with the producers of the protective regimes.

**Eye face protection:** Handle in accordance with good industrial hygiene and safety practice.

**Other protective equipment:** Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.

### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Clear Liquid

**Odor:** Not available

Odor threshold: No applicable information available

**pH:** >2.0

Melting/Freezing point: No applicable information available

Boiling point: No applicable information available

Flash point:  $> 212 \,^{\circ}\text{F} / > 100 \,^{\circ}\text{C}$ 

Flashpoint (Method): No applicable information available

Evaporation rate (BuAe = 1): No data available

Flammability (solid, gas): Not flammable

Lower flammable limit (% by vol.): Not Flammable

Upper flammable limit (% by vol.): Not Flammable

Vapor pressure: No applicable information available

Vapor density: No applicable information available

Relative density: No applicable information available

Solubility in water: Soluble

Other solubility(ies): No applicable information available

Partition coefficient: No applicable information available

Auto ignition temperature: No applicable information available

**Decomposition temperature:** No applicable information available

**Viscosity:** No applicable information available.

Volatile organic Compounds (%VOC's): No applicable information available

Other physical/chemical comments: No applicable information available

# SECTION 10 - STABILITY AND REACTIVITY

Reactivity: Not normally reactive

Chemical stability: Stable

Possibility of hazardous reactions: Stable under recommended storage conditions.

**Conditions to avoid:** Heat. Keep out of reach of children. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

**Incompatible materials:** Strong acids and strong bases. Oxidizing agents.

Hazardous decomposition products: None known. Refer to 'Hazardous Combustion Products' in Section 5

## SECTION 11 - TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure:

Routes of entry - inhalation: Avoid breathing vapors or mists

Routes of entry - skin & eye: Avoid contact with eyes

Routes of entry - Ingestion: Do not taste or swallow

#### **Potential Health Effects:**

Signs and symptoms of short term (acute) exposure:

**Symptoms:** Please see section 4 of this SDS sheet for symptoms.

#### **Potential Chronic Health Effects:**

Mutagenicity: Not expected to be mutagenic in humans.

Carcinogenicity: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects: No applicable information available

Sensitization to material: No applicable information available

**Specific target organ effects:** No data available to indicate product or components will have specific target organ effects.

Medical conditions aggravated by overexposure: Pre-existing skin or eye disorders.

Other important toxicological hazards: None reported.

### SECTION 12 - ECOLOGICAL INFORMATION

**Ecotoxicity:** No applicable information available.

Persistence and degradability: No applicable information available

Bioaccumulation potential: No applicable information available.

Mobility in soil: No applicable information available.

Other Adverse Environmental effects: No applicable information available.

# **SECTION 13 - DISPOSAL CONSIDERATIONS**

**Handling for disposal:** Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

**Methods of disposal:** Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

### **SECTION 14 - TRANSPORTATION INFORMATION**

**Special Shipping Information:** Keep from freezing. **T.D.G. Classification:** Not regulated under T.D.G. **D.O.T. Classification:** Not regulated under D.O.T.

## **SECTION 15 - REGULATORY INFORMATION**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

EPA Registration Number: 6836-385-64900

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control product label:

PMRA Registration number: 6836-385

EPCRA - Emergency Planning and Community Right-to-Know Act

**CERCLA Reportable Quantity** 

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Orthophosphoric acid	7664-38-2	5000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Hydrogen peroxide	7722-84-1	1000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Concentration
Hydrogen peroxide	7722-84-1	>= 1 - < 5 %

## **SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed thethreshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S.Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Acci-dental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Inter-mediate or Final VOC's (40 CFR 60.489).

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

#### **Clean Water Act**

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Components	CAS-No.	Component RQ (lbs)
Orthophosphoric acid	7664-38-2	5000

The following Hazardous Substances are listed under the U.S. Clean Water Act, Section 311, Table 116.4A:

Components	CAS-No.	Concentration
Orthophosphoric acid	7664-38-2	>= 0.1 - < 1 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### **US State Regulations**

### Massachusetts Right To Know

Components	CAS-No.
Hydrogen peroxide	7722-84-1

## Pennsylvania Right To Know

Components	CAS-No.
Water	7732-18-5

### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, orany other reproductive harm.

#### **Canadian lists**

#### NPRI

Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.

### **SECTION 16 - OTHER INFORMATION**

Legend:

**ACGIH:** American Conference of Governmental Industrial Hygienists

**CAS:** Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980

**CFR:** Code of Federal Regulations **DOT:** Department of Transportation **EPA:** Environmental Protection Agency

IARC: International Agency for Research on Cancer

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

**OSHA:** Occupational Safety and Health Administration

**PEL:** Permissible exposure limit

SARA: Superfund Amendments and Reauthorization Act

**SDS:** Safety Data Sheet

**STEL:** Short Term Exposure Limit **TWA:** Time Weighted Average

**Prepared By:** Charlotte Technical Services Group Tel: (705) 740 2880

### **DISCLAIMER**

Information for this safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of this supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of GHS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of, or reliance on, any information contained within this form.

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