

RITE OFF

***MATERIAL SAFETY DATA SHEET***

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****Product:** GENERATION 2000<sup>®</sup> ELECTRO CLEAN**Product Code:** 51689**Company Address:**Rite-Off, Inc.

105 Park Avenue

Seaford Industrial Park

Seaford, DE 19973

**24 Hour Emergency Telephone:** CHEM-TEL (800) 255-3924**Phone Number for Information:** (302) 628-2100 Mon - Fri, 8:30 am - 4:30 pm EST**SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS**

<b>Hazardous Component</b>	<b>CAS#</b>	<b>OSHA PEL (TWA)</b>	<b>ACGIH TLV (TWA)</b>	<b>Other Limits Recommended</b>	<b>Percent Weight</b>
*1,1-Dichloro-1-fluoroethane	1717-00-6	N/A	N/A	500 ppm (AIHA)	< 90 %
Isopropyl Alcohol	67-63-0	400 ppm	400 ppm	500 ppm (STEL)	
1,1,1,2-Tetrafluoroethane	811-97-2	N/A	N/A	1000 ppm (AIHA)	
Carbon Dioxide	124-38-9	5000 ppm	5000 ppm	30,000 ppm (STEL)	

\*This chemical is subject to the reporting requirement of SARA Section 313.

**SECTION 3: HAZARDS IDENTIFICATION****Emergency Overview:** Colorless liquid with mild ethereal odor. Contents under pressure. Prolonged exposure to sunlight or heat may cause bursting of can. Avoid prolonged breathing of vapor or contact with skin and eyes.**Potential Health Effects:****Eye:** Liquid can irritate eyes and may cause conjunctivitis**Skin:** Prolonged or repeated contact can cause irritation and defatting of skin**Inhalation:** Overexposure can cause dizziness, loss of concentration and irritation of respiratory tract**Ingestion:** Similar as for inhalation**Carcinogenicity:** IARC - No NTP - No OSHA - No

**Chronic:** Prolonged overexposure may contribute to mild, reversible liver effects and cardiac arrhythmias

#### **SECTION 4: FIRST AID MEASURES**

**If Inhaled:** Move to fresh air. Give oxygen to exposed person, if necessary.

**If Swallowed:** Do NOT induce vomiting unless instructed by a physician. Contact physician, hospital or poison control center.

**If In Eyes:** Flush thoroughly with water for at least 15 minutes.

**If On Skin:** Wash affected area with soap and water.

**Note to Physician:** N/A

#### **SECTION 5: FIRE FIGHTING MEASURES**

**Flash Point (°F) & Method:** None    **Flammable Limits - Lower:** N/A    **Upper:** N/A

**Extinguishing Media:** Carbon dioxide, dry chemical, water spray

**Fire & Explosion Hazards:** Aerosol cans are under pressure - exposure to temperatures above 120°F can cause bursting or "rocketing" of cans. Firefighters should use self-contained respiratory protection in buildings or confined spaces.

**Hazardous Combustion Products:** Hydrogen chloride, hydrogen fluoride, carbonyl halides, carbon monoxide, carbon dioxide

**Flammability Classification:** (NFPA) Level 1 Aerosol

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**In case of spill or accidental release:** Use absorbent material to soak up liquid. Place used absorbents into closed DOT-approved containers for disposal.

#### **SECTION 7: HANDLING AND STORAGE**

**Precautions for Handling and Storage:** Shake well before using. Keep away from heat, sparks and open flames. Prolonged exposure to direct sunshine or storage above 120°F may cause can to burst. Do not puncture or incinerate can.

#### **SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION**

**Respiratory Protection:** Not required when used as directed.

**Ventilation:** General ventilation should be provided.

**Protective Gloves:** PVA or Neoprene gloves may be used.

**Eye Protection:** Safety glasses or goggles are recommended.

**Other Protective Clothing or Equipment:** Not required when used as directed.

**Work & Hygienic Practices:** Wash hands thoroughly after use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance & Odor:** Colorless liquid with mild ethereal odor

<b>Boiling Point (°F):</b> 89.6	<b>Specific Gravity (H<sub>2</sub>O=1):</b> 1.2
<b>Vapor Pressure @ 70°F:</b> 10 psia	<b>Melting Point (°F):</b> N/A
<b>Vapor Density (Air=1):</b> >1	<b>Evaporation Rate (Butyl Acetate =1):</b> >1
<b>Solubility in Water:</b> negligible	<b>pH:</b> N/A
<b>% Reportable VOC Content:</b> 5.0 %	

## SECTION 10: STABILITY AND REACTIVITY

**Stability: (Conditions to Avoid)** Stable. Avoid open flames and high temperatures.

**Incompatibility: (Specific Materials to Avoid)** Strong oxidizers, acids & alkalies, reactive metals

**Hazardous Decomposition Products:** Hydrogen chloride, hydrogen fluoride, carbonyl halides, carbon monoxide, carbon dioxide

**Hazardous Polymerization:** Will not occur

## SECTION 11: TOXICOLOGICAL INFORMATION

Information is based on available data on product components. Product as a whole has not been evaluated.

**Oral:** LD<sub>50</sub> (rat) = 4700 mg/kg

**Dermal:** LD<sub>50</sub> (rabbit) = 16.37 ml/kg

**Inhalation:** LC<sub>50</sub> (rat) = 16,000 ppm

**Eye Irritation:** Moderate, reversible

**Skin Irritation:** Mild, reversible

## SECTION 12: ECOLOGICAL INFORMATION

Minimal biodegradability

Moderately toxic to fish and other aquatic organisms

## SECTION 13: DISPOSAL CONSIDERATIONS

Always use up product according to label directions before disposal.

Offer empty container for recycling where facilities exist. If recycling is not available, wrap empty container in newspaper and discard in trash. DO NOT PUNCTURE OR INCINERATE CONTAINER.

## SECTION 14: TRANSPORT INFORMATION

Shipping name	<b>Domestic</b> Consumer Commodity	<b>International</b> Consumer Commodity
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Hazard Class:	ORM-D	2.2
UN number:	none	UN1950
Packing Group:	none	none
Hazard Label:	ORM-D	class 2 - NONFLAMMABLE

## SECTION 15: REGULATORY INFORMATION

**OSHA:** This product is considered hazardous based on the criteria listed in the Federal OSHA Hazard Communication Standard.

29 CFR 1910.1200.

**TSCA:** All chemical components are listed in the TSCA inventory.

**NJ Right to Know:** In addition to the hazardous components listed in section 2, this product contains the following components in a quantity sufficient to require identification:

No other components

## SECTION 16: OTHER INFORMATION

**HMIS Ratings:** (0=minimal, 1=slight, 2=moderate, 3=serious, 4=severe)

**Health - 1 Flammability - 1 Reactivity - 0**

**Last Revision Date:** 10/22/96

**Supersedes Date:** 6/25/96