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® HEAVY DUTY DEFLUXER **Product Code:** E1635

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

Hazardous Component	CAS#	OSHA PEL (TWA)	ACGIH TLV (TWA)	Other Limits Recommended	Percent by Weight
*Methylene Chloride	75-09-2	500 ppm	50 ppm	75 ppm (NIOSH)	< 48 %
*Dichlorofluoroethane	1717-00-6	N/A	N/A	500 ppm (AIHA)	< 42 %
*Methanol	67-56-1	200 ppm	200 ppm	250 ppm (STEL)	< 6 %
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. Contains methylene chloride, which has been shown to cause cancer in certain laboratory animals. Risk to your health depends on level and duration of exposure. Avoid prolonged breathing of vapor or contact with skin and eyes.

Potential Health Effects:
Eye: Liquid can irritate eyes and cause temporary corneal injury
Skin: Prolonged or repeated contact can cause irritation and defatting of skin
Inhalation: Overexposure can cause dizziness, nausea, loss of concentration and irritation of respiratory tract
Ingestion: Gastrointestinal irritation, nausea, diarrhea

Carcinogenicity: IARC - Yes NTP - Yes OSHA - No
Chronic: Prolonged overexposure may contribute to liver abnormalities, lung & kidney damage

SECTION 4: FIRST AID MEASURES

First Aid Procedures:

If Inhaled: Move to fresh air. Give oxygen to exposed person, if necessary.
If Swallowed: Drink two glasses of water. Do NOT induce vomiting. 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: Do not give stimulants. Epinephrine or ephedrine may adversely affect the heart with fatal results.

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SECTION 5: FIRE FIGHTING MEASURES

Flash Point (°F) & Method: N/A **Flammable Limits -** **Lower:** N/A **Upper:** N/A

Extinguishing Media: Carbon dioxide, dry chemical, water fog, foam

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: Clear colorless liquid with mild ethereal odor

Boiling Point (°F): 89.6

Specific Gravity (H_2O=1): 1.2

Vapor Pressure @ 70°F: 90 psi

Melting Point (°F): N/A

Vapor Density (Air=1): > 1

Evaporation Rate (Butyl Acetate =1): > 1

Solubility in Water: slight

pH: neutral

% VOC Content: 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

Oral: LD_{50} (rat) 2000 mg/kg for Methylene Chloride; > 5 g/kg for Dichlorofluoroethane

Dermal: LD_{50} N/A

Inhalation: LC_{50} (rat) 62,000 ppm for Dichlorofluoroethane; > 567,000 ppm for Tetrafluoroethane

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

DOT/UN Shipping Description:	Domestic - Consumer Commodity International - Aerosols, nonflammable, n.o.s., 2.2, UN1950
DOT/UN Hazard Label:	Domestic - ORM-D International - Nonflammable Gas

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: NONE

SECTION 16: OTHER INFORMATION

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

Last Revision Date: 9/6/94
Supersedes Date: 2/8/94