

# Material Safety Data Sheet

Material Name: Rainbow® Deodorizer Air Freshener

MSDSID: REX-003

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

### Manufacturer Information

REXAIR LLC  
50 W. Big Beaver Rd., Suite 350  
Troy, MI 48084

Phone: (248) 643-7222

Emergency # 1 (800) 255 3924 CHEM-TEL, INC.

### General Comments

NOTE: Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

## \*\*\* Section 2 - Composition / Information on Ingredients \*\*\*

CAS #	Substance	Percent
7732-18-5	Water	65-70
64-17-5	Ethyl alcohol	16-17
112-27-6	Triethylene glycol	10-11
7492-30-0	Potassium ricinoleate	1-5
88-04-0	p-Chloro-m-xyleneol	<2

### Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). Other components in this product are considered non-hazardous under the criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

## \*\*\* Section 3 - Hazards Identification \*\*\*

### Emergency Overview

**FLAMMABLE** This product is harmful by inhalation and if it is swallowed. Contact with this material can cause irritation to the skin, eyes and mucous membranes. Irritating and toxic fumes and gases may be released upon thermal processing or during combustion. Firefighters should wear full protective clothing and self contained breathing apparatus.

### Potential Health Effects: Eyes

This product may cause irritation to the eyes. Prolonged or repeated contact may worsen irritation.

### Potential Health Effects: Skin

This product may cause irritation to the skin. Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

### Potential Health Effects: Ingestion

This product may be harmful if it is swallowed. Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea. May cause irritation and symptoms similar to ethyl alcohol intoxication. May cause dizziness, incoordination, headache, nausea, and vomiting.

### Potential Health Effects: Inhalation

This product can be harmful by inhalation. This product is irritating to the respiratory system. Excessive inhalation of this product may cause headache, dizziness, blurred vision, nausea and vomiting.

**HMIS Ratings: Health: 2 Fire: 3 Reactivity: 0 Pers. Prot.: X** (Should be determined by your supervisor.)

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## \*\*\* Section 4 - First Aid Measures \*\*\*

### First Aid: Eyes

Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.

### First Aid: Skin

For skin contact, flush with large amounts of water. If irritation persists, get medical attention.

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## First Aid: Ingestion

If ingested, get immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.

## First Aid: Inhalation

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration. Seek medical attention.

## First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

**Flash Point:** 98°F (37°C)

**Upper Flammable Limit (UFL):** Not available

**Auto Ignition:** Not determined

**Method Used:** Pensky-Martens Closed Cup

**Lower Flammable Limit (LFL):** Not available

**Flammability Classification:** OSHA Flammability Classification: Flammable

**Rate of Burning:** Not determined

## General Fire Hazards

Fire and explosion hazards are moderate when this product is exposed to heat or flame.

## Hazardous Combustion Products

Irritating and/or toxic gases may be emitted upon the product's decomposition. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

## Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog. Use water to cool fire-exposed containers and to protect personnel. Avoid using a direct stream of water.

## Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

**NFPA Ratings: Health: 2 Fire: 3 Reactivity: 0 Other: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

## Containment Procedures

Contain the discharged material. Dike the spilled material, where this is possible. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Block any potential routes to water systems.

## Clean-Up Procedures

Wear appropriate protective equipment and clothing during clean-up. Ventilate the contaminated area. Absorb spill with inert material. Shovel material into appropriate container for disposal.

## Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

## Special Procedures

Surfaces may become slippery after spillage. Have emergency equipment readily available.

## \*\*\* Section 7 - Handling and Storage \*\*\*

## Handling Procedures

Do not get this material in contact with skin or eyes. Do not inhale vapors or mists of this product. Use this product with adequate ventilation. Wash thoroughly after handling. Keep this product from heat, sparks, or open flame.

## Storage Procedures

Keep the container tightly closed and in a cool, well-ventilated place. Eliminate all sources of ignition. Store away from strong oxidizers. All Rexair liquids are valid 6 years after the date of manufacturing.

## \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

## Exposure Guidelines

### A: General Product Information

Follow all applicable exposure limits.

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## B: Component Exposure Limits

### Ethyl alcohol (64-17-5)

ACGIH: 1000 ppm TWA  
OSHA: 1000 ppm TWA; 1900 mg/m<sup>3</sup> TWA  
NIOSH: 1000 ppm TWA; 1900 mg/m<sup>3</sup> TWA

## Engineering Controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

## PERSONAL PROTECTIVE EQUIPMENT

### Personal Protective Equipment: Eyes/Face

Wear safety glasses; chemical goggles (if splashing is possible).

### Personal Protective Equipment: Skin

Use impervious gloves. Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves.

### Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively prevent buildup of vapor/mist/fume/dust, appropriate NIOSH/MSHA respiratory protection must be provided. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage must be implemented.

### Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended. Use good industrial hygiene practices in handling this material.

## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance:</b> Green	<b>Odor:</b> Mild mint, antiseptic, alcohol
<b>Physical State:</b> Liquid	<b>pH:</b> 8.82
<b>Vapor Pressure:</b> Estimated 19.5 mm Hg @ 68°F (20°C)	<b>Vapor Density:</b> >1, estimated 1.2 (air = 1)
<b>Boiling Point:</b> 167°F to 204.8°F (75°C to 96°C) (barometric pr. = 30.28 " Hg)	<b>Melting Point:</b> Not available
<b>Solubility (H<sub>2</sub>O):</b> Complete	<b>Specific Gravity:</b> 0.995
<b>Freezing Point:</b> <-4°F (<-20°C) (barometric pr. = 30.24 " Hg)	<b>Evaporation Rate:</b> Estimated <1 (n-butyl acetate = 1)
<b>Viscosity:</b> 2.33 cSt @ 80.6°F (27°C)	<b>Bulk Density:</b> 0.990g/mL
<b>Percent Volatile:</b> Not determined	<b>Molecular Weight:</b> Not determined

## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

### Chemical Stability

Stable under normal conditions.

### Chemical Stability: Conditions to Avoid

Keep away from heat, ignition sources and incompatible materials.

### Incompatibility

This product may react with oxidizing agents.

### Hazardous Decomposition

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

### Hazardous Polymerization

Will not occur.

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## \*\*\* Section 11 - Toxicological Information \*\*\*

### Acute and Chronic Toxicity

#### A: General Product Information

No information available for the product. Ethyl alcohol is irritating to the eyes, nose and respiratory system at very high vapor concentrations. Repeated ingestion of ethyl alcohol may result in liver damage. Excessive inhalation of this material may cause central nervous system depression. Symptoms include headache, dizziness, nausea and incoordination.

#### B: Component Analysis - LD50/LC50

##### Water (7732-18-5)

Oral LD50 Rat: >90 mL/kg

##### Ethyl alcohol (64-17-5)

Inhalation LC50 Rat: 124.7 mg/L/4H; Oral LD50 Rat: 1501 mg/kg

##### Triethylene glycol (112-27-6)

Oral LD50 Rat: 12800 mg/kg; Dermal LD50 Rabbit: 22460 mg/kg

##### p-Chloro-m-xylenol (88-04-0)

Oral LD50 Rat: 3830 mg/kg

### Carcinogenicity

#### A: General Product Information

No carcinogenicity data available for this product.

#### B: Component Carcinogenicity

##### Ethyl alcohol (64-17-5)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

### Epidemiology

No epidemiological data is available for this product.

### Neurotoxicity

Ethyl alcohol may cause CNS depression characterized by dizziness, loss of control and judgment, sleepiness, lack of concentration and even coma and death at high exposure.

### Mutagenicity

No data available for this product.

### Teratogenicity

No information available for the product. Ethyl alcohol is responsible for fetal alcohol syndrome which includes a number of teratogenic results: spontaneous abortions, birth defects and developmental problems.

### Other Toxicological Information

No additional information available.

## \*\*\* Section 12 - Ecological Information \*\*\*

### Ecotoxicity

#### A: General Product Information

No data available for this product. Components of this product are hazardous to aquatic life.

#### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

##### Ethyl alcohol (64-17-5)

Test & Species	Data	Conditions
96 Hr LC50 Oncorhynchus mykiss	12900 mg/L	30 days old
96 Hr LC50 Pimephales promelas	14.2 mg/L	
5 min EC50 Photobacterium phosphoreum	35470 mg/L	
30 min EC50 Photobacterium phosphoreum	34634 mg/L	
48 Hr EC50 Daphnia magna	9268 mg/L	
24 Hr EC50 Daphnia magna	10800 mg/L	

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## Triethylene glycol (112-27-6)

### Test & Species

Test & Species	Data	Conditions
96 Hr LC50 Pimephales promelas	59900 mg/L	flow-through
96 Hr LC50 Lepomis macrochirus	10000 mg/L	static
96 Hr LC50 Lepomis macrochirus	61000 mg/L	flow-through
5 min EC50 Photobacterium phosphoreum	850 mg/L	
48 Hr EC50 Daphnia magna	42426 mg/L	

## p-Chloro-m-xylenol (88-04-0)

### Test & Species

Test & Species	Data	Conditions
96 Hr LC50 Oncorhynchus mykiss	0.77 mg/L	
96 Hr LC50 Lepomis macrochirus	2.7 mg/L	
5 min EC50 Photobacterium phosphoreum	1.6 mg/L	
48 Hr EC50 water flea	4.5 mg/L	Static

## Environmental Fate

No data available for this product.

## \*\*\* Section 13 - Disposal Considerations \*\*\*

### US EPA Waste Number & Descriptions

#### A: General Product Information

Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

#### B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

### Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

## \*\*\* Section 14 - Transportation Information \*\*\*

### International Transportation Regulations

Aqueous solution containing greater than 50% water and less than 24% alcohol - Not subject to the hazardous materials/dangerous goods transportation regulations as provided by 49 CFR, paragraph 173.150(e), IATA Special Provision A58, IMDG Code Special Provision 144.

## \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations

#### A: General Product Information

All components are on the U.S. EPA TSCA Inventory List. All components listed in this product appear on the Canadian DSL/NDL.

#### B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

SARA 311/312 Acute Health: Yes Chronic Health: No Fire: Yes Pressure: No Reactive: No

### State Regulations

#### A: General Product Information

Other state regulations may apply. Check individual state requirements.

#### B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Ethyl alcohol	64-17-5	Yes	Yes	Yes	Yes	Yes	Yes
Triethylene glycol	112-27-6	No	No	No	No	Yes	Yes

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The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

## Canadian WHMIS Information

### A: General Product Information

No additional information available.

### B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Substance	CAS #	Minimum Concentration
Ethyl alcohol	64-17-5	0.1 %
Triethylene glycol	112-27-6	1 %

WHMIS Classification: B2, D2A

## Additional Regulatory Information

### A: General Product Information

No additional information available.

### B: Component Analysis - Inventory

Substance	CAS #	TSCA	CAN	EEC	ELINCS
Water	7732-18-5	Yes	DSL	EINECS	No
Ethyl alcohol	64-17-5	Yes	DSL	EINECS	No
Triethylene glycol	112-27-6	Yes	DSL	EINECS	No
Potassium ricinoleate	7492-30-0	Yes	DSL	EINECS	No
p-Chloro-m-xylenol	88-04-0	Yes	DSL	EINECS	No

## \*\*\* Section 16 - Other Information \*\*\*

### Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

### MSDS History

07/31/2001 - Revision 2

10/05/2005 - Revision 3

11/22/2006 - Revision 4

### Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

Contact: Bruce Shafer, V.P. of Manufacturing

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This is the end of MSDS # REX-003