

Material Name: EXODOR® HVAC Disodorizer® Treatment MSDS ID: WAL-011

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

Chemical Name: HVAC Disodorizer

Product Use: Eliminates odors from heating, ventilation, and air conditioning (HVAC) systems.

Manufacturer Information

WALEX Products Company, Inc. Phone: +1 910 371 2242

P.O. Box 3785

Wilmington, NC 28406 Emergency # 1-800-424-9300 (CHEMTREC USA)

Mfg Contact: 1-703-527-3887 (CHEMTREC Int'l)

General Comments

CHEMTREC telephone number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.

* * * Section 2 - Hazards Identification * * *

Emergency Overview

WARNING

Product is a colorless liquid with a fragrant, lemon odor. Contact can cause moderate to severe irritation and possible injury to the eyes. This product may be irritating to the respiratory system and skin. Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. This product may be harmful if it is swallowed. Ingestion or inhalation may cause central nervous system effects.

Potential Health Effects: Eyes

Contact can cause moderate to severe irritation and possible injury to the eyes.

Potential Health Effects: Skin

This product may cause irritation to the skin. Prolonged or repeated contact may worsen irritation. Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals.

Potential Health Effects: Ingestion

This product may be harmful if it is swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause irritation of the throat, stomach, and gastrointestinal tract. Ingestion of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision.

Potential Health Effects: Inhalation

Inhalation of vapors or mists of the product may be irritating to the respiratory system. Inhalation of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision.

HMIS Ratings: Health: 2 Fire: 1 Physical Hazard: 0 Pers. Prot.: Gloves, Goggles

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

* * * Section 3 - Composition / Information on Ingredients * * *

CAS#	Component	Percent
7732-18-5	Water	75-85
64-17-5	Ethyl alcohol	5-10
85409-23-0	Alkyl(C12-14)dimethyl(ethylbenzyl)ammonium chloride	1-5
68391-01-5	Alkylbenzyldimethylammonium chloride	1-5
Proprietary	Biocide	1-5
Proprietary	Biocide corrosion inhibitor	<1
Not Available	Fragrance	<1

Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).



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* * * Section 4 - First Aid Measures * * *

First Aid: Eyes

Remove contact lenses, if worn. Immediately flush eyes with lukewarm water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.

First Aid: Skin

For skin contact, wash immediately with soap and water. Immediately take off all contaminated clothing. Wash contaminated clothing before reuse. If irritation persists, get medical attention.

First Aid: Ingestion

Do not induce vomiting. Call a physician immediately. Never give anything by mouth to a victim who is unconscious or is having convulsions.

First Aid: Inhalation

If inhaled, immediately remove the affected person to fresh air. Call a physician if symptoms develop or persist.

* * * Section 5 - Fire Fighting Measures * * *

General Fire Hazards

See Section 9 for Flammability Properties.

This product is an aqueous mixture which will not burn. If evaporated to dryness, the solid residue may pose a slight fire hazard.

Hazardous Combustion Products

Combustion products include fumes, smoke, carbon monoxide, carbon dioxide and nitrogen dioxide.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Equipment/Instructions

Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products.

NFPA Ratings: Health: 2 Fire: 1 Reactivity: 0

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

* * * * Section 6 - Accidental Release Measures * * *

Containment Procedures

Stop the flow of material, if this is without risk. Block any potential routes to water systems.

Clean-Up Procedures

Ventilate the contaminated area. Wear appropriate protective equipment and clothing during clean-up. Scoop up used absorbent into drums or other appropriate container. Regulations vary. Consult local authorities before disposal.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

Wear appropriate personal protective equipment to prevent contact with eyes and skin. Avoid inhalation of mists or vapors from the spilled material.

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Prevent eye and skin contact. Prevent inhalation of mists or vapors. Avoid prolonged exposure. Wash thoroughly after handling.

Storage Procedures

Keep the container tightly closed and in a cool, well-ventilated place. Keep away from incompatible materials.

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

Exposure Guidelines

A: General Product Information

Attempts should be made to eliminate all contact with skin and eyes, and to limit inhalation exposure.

B: Component Exposure Limits

Ethyl alcohol (64-17-5)

ACGIH: 1000 ppm TWA

OSHA: 1000 ppm TWA; 1900 mg/m3 TWA NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA

Biocide corrosion inhibitor (Proprietary)

ACGIH: 20 ppm TWA

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA: 20 ppm TWA; 70 mg/m3 TWA 30 ppm STEL; 105 mg/m3 STEL

Prevent or reduce skin absorption
NIOSH: 20 ppm TWA; 70 mg/m3 TWA

30 ppm STEL; 105 mg/m3 STEL Potential for dermal absorption

Engineering Controls

Ventilation should effectively remove and prevent buildup of any mists or vapors generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear chemical goggles. Add a face shield if splashing possible.

Personal Protective Equipment: Skin

Use impervious gloves.

Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively prevent buildup of vapors or mists, appropriate NIOSH approved respiratory protection must be provided.

Personal Protective Equipment: General

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

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

Appearance: Colorless liquid Odor: Lemon fragrance

Physical State: Liquid pH: 6.5 - 7.5

Vapor Pressure: Not determined Not determined Vapor Density: Not determined **Boiling Point: Melting Point:** Not determined Solubility (H2O): 100% Specific Gravity: 0.98 (approx.) Flash Point: Not available Flash Point Method: Not available Upper Flammability Limit (UFL): Not determined Not determined

Auto Ignition: Not determined Upper Flammability Limit (UFL): Not determined Lower Flammability Unit (LFL): Not determined Percent Volatile: 90% (approx.)

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

Chemical Stability

Stable under normal conditions.

Chemical Stability: Conditions to Avoid

Keep separate from incompatible materials. Avoid generating splashes or mists of this material.

Incompatibility

May react with strong oxidizing agents and reducing agents.

Hazardous Decomposition

Combustion products include fumes, smoke, carbon monoxide, carbon dioxide and nitrogen dioxide.

Possibility of Hazardous Reactions

Will not occur.

* * * Section 11 - Toxicological Information * * *

Acute Dose Effects

A: General Product Information

The toxicological properties of this material have not been fully investigated. Product is expected to be harmful if swallowed, cause moderate to severe eye irritation and damage, and cause skin, respiratory system, and gastrointestinal tract irritation. Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. Excess exposure to the biocide corrosion inhibitor through skin absorption or contact with vapors may result in respiratory irritation and transient eye irritation. Repeated exposures may result in injury.

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

Biocide corrosion inhibitor (Proprietary)

Oral LD50 Rat: 1050 mg/kg; Dermal LD50 Rabbit: 310 mg/kg

Repeated Dose Effects

Ethyl alcohol is responsible for fetal alcohol syndrome which includes a number of teratogenic results: spontaneous abortions, birth defects and developmental problems.

Carcinogenicity

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

Ethyl alcohol (64-17-5)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Biocide corrosion inhibitor (Proprietary)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999], Monograph 47 [1989] (Group 3 (not classifiable))

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* * * Section 12 - Ecological Information * * *

Ecotoxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Ethyl alcohol (64-17-5)

Test & Species	Conditions
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12900 mg/L	flow-through;30 days old
14.2 mg/L	
35470 mg/L	
34634 mg/L	
9268 mg/L	
10800 mg/L	
	14.2 mg/L 35470 mg/L 34634 mg/L 9268 mg/L

Biocide corrosion inhibitor (Proprietary)

Test & Species Conditions

96 Hr LC50 Lepomis macrochirus	350.0 mg/L
96 Hr EC50 Chlorella vulgaris	28.0 mg/L
96 Hr EC50 Selenastrum capricornutum	28.0 mg/L
30 min EC50 Photobacterium phosphoreum	57.0 mg/L
24 Hr EC50 water flea	100.0 mg/L

Environmental Fate

No additional information available.

* * * 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.

static

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. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

* * * Section 14 - Transportation Information * * *

US DOT Information

Shipping Name: Not regulated as a hazardous material.

TDG Information

Shipping Name: Not regulated as a dangerous good.

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* * * Section 15 - Regulatory Information * * *

US Federal Regulations

A: General Product Information

Components of this product have been checked against the non-confidential TSCA inventory by CAS Registry Number. Components not identified on this non-confidential inventory are exempt from listing (i.e. as polymers) or are listed on the confidential inventory as declared by the supplier.

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).

Acute Health: Yes Chronic Health: No Fire: No Pressure: No Reactive: No

State Regulations

A: General Product Information

Product may be subject to reporting in states other than those listed for individual components.

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
Biocide corrosion inhibitor	Proprietary	Yes	Yes	Yes	Yes	Yes	Yes

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.

Component Analysis - WHMIS IDL

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

Component	CAS#	Minimum Concentration
Ethyl alcohol	64-17-5	0.1 %

Additional Regulatory Information

A: General Product Information

No additional information available.

B: Component Analysis - Inventory

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Component	CAS#	TSCA	CAN	EEC
Water	7732-18-5	Yes	DSL	EINECS
Ethyl alcohol	64-17-5	Yes	DSL	EINECS
Alkylbenzyldimethylammonium chloride	68391-01-5	Yes	DSL	EINECS
Alkyl(C12-14)dimethyl(ethylbenzyl)ammonium	85409-23-0	No	No	EINECS
chloride				
Biocide corrosion inhibitor	Proprietary	Yes	DSL	EINECS

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* * * 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.

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; CAS = Chemical Abstracts Service; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations; CPR = Controlled Products Regulations; DOT = Department of Transportation; DSL = Domestic Substances List; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EPA = Environmental Protection Agency; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IMO = International Maritime Organization; MAC/MAK = Maximum Concentration Value in the Workplace; mg/Kg = milligrams per Kilogram; mg/L = milligrams per Liter; mg/m3 = milligrams per Cubic Meter; MSHA = Mine Safety and Health Administration; NA = Not Applicable or Not Available; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NLP = No Longer Polymer; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; VLA/VLE = Work Exposure Threshold; SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit; TDG = Transport Dangerous Goods; TSCA = Toxic Substances Control Act; WHMIS = Workplace Hazardous Materials Information System.

This is the End of MSDS # WAL-011

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