# **Material Safety Data Sheet**

Issuing Date 14-Nov-2011 Revision Date Revision Number 0

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Fresh Air Concentrate

Manufacturer AddressDistributorRexair LLCRexair LLC230 Seventh Street50 W. Big BeaverCadillac, MI 49601 USASuite 350

TEL: 231-775-3413 Troy, MI 48084 USA TEL: 248-643-7222

**Emergency Telephone** 

Number

248-643-7222

### 2. HAZARDS IDENTIFICATION

### CAUTION!

# **Emergency Overview**

May be combustible
May cause skin, eye, and respiratory tract irritation
May cause central nervous system depression
May adversely affect liver and kidney.

Appearance Green Physical State Liquid. Odor No information available

Potential Health Effects

**Acute Toxicity** 

**Eyes** Contact with eyes may cause irritation.

Skin May cause sensitization by skin contact. May cause skin irritation and/or dermatitis.

**Inhalation** Inhalation of vapors in high concentration may cause irritation of respiratory system. Exposure

to high concentrations of vapor may cause central nervous system depression.

**Ingestion** May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting

and diarrhea. May cause central nervous system depression.

Chronic Effects Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic

beverage. Ethanol has been shown to be carcinogenic in long-term studies only when

consumed as alcoholic beverage. May cause adverse liver effects. May cause adverse kidney

effects.

Aggravated Medical Conditions Liver disorders. Kidney disorders. Skin disorders. Allergies.

**Environmental Hazard** See Section 12 for additional Ecological Information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Ethyl alcohol	64-17-5	16
Triethylene glycol	112-27-6	11

	enol	88-04-0	1.5

### 4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a

specialist.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. If skin irritation persists, call a physician.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if

symptoms occur.

Ingestion Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Get medical attention

immediately if symptoms occur.

Notes to Physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Flammable Properties May be ignited by friction, heat, sparks or flames.

Flash Point Not determined.

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment.

**Explosion Data** 

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None

Protective Equipment and As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

**Precautions for Firefighters** (approved or equivalent) and full protective gear.

NFPA Health Hazard 1 Flammability 1 Instability 0 Physical and Chemical

Hazards -

HMIS Health Hazard 1\* Flammability 1 Physical Hazard 0 Personal Protection X

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with the skin and the eyes. Ensure adequate ventilation. Use personal protective

equipment.

**Environmental Precautions** Refer to protective measures listed in Sections 7 and 8.

**Methods for Containment**Dike far ahead of liquid spill for later disposal.

**Methods for Cleaning Up**Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Clean contaminated surface thoroughly.

### 7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin,

eyes and clothing. Wear personal protective equipment. Keep away from open flames, hot

surfaces and sources of ignition.

Storage Keep away from open flames, hot surfaces and sources of ignition. Keep containers tightly

closed in a dry, cool and well-ventilated place.

**Revision Date** 

No information available.

No information available

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl alcohol	TWA: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm 10% LEL
64-17-5		TWA: 1900 mg/m <sup>3</sup>	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m <sup>3</sup>
		(vacated) TWA: 1900 mg/m <sup>3</sup>	

Engineering Measures Showers

Eyewash stations Ventilation systems

**Personal Protective Equipment** 

Eye/Face Protection
Skin and Body Protection
Respiratory Protection
Tightly fitting safety goggles.
Lightweight protective clothin
If exposure limits are exceed

Lightweight protective clothing.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory

**Autoignition Temperature** 

**Boiling Point/Boiling Range** 

protection should be worn. Respiratory protection must be provided in accordance with current local regulations

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceGreen.OdorNo information available

Odor Threshold No information available Physical State Liquid

**pH** No information available.

Flash Point No information available.

Decomposition Temperature No information available.

Melting Point/Range No information available

Flammability Limits in Air No information available.

Solubility No information available. Evaporation Rate No information available

Vapor PressureNo data available.Vapor DensityNo data available.

### 10. STABILITY AND REACTIVITY

**Stability** Stable under recommended storage conditions.

**Incompatible Products** Strong oxidizing agents.

**Conditions to Avoid** Ignitions sources - heat, sparks and open flames.

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Polymerization Hazardous polymerization does not occur.

**Revision Date** 

# 11. TOXICOLOGICAL INFORMATION

### **Acute Toxicity**

### **Product Information**

Inhalation Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Eye Contact** May cause irritation. May cause irritation. **Skin Contact** 

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting

and diarrhea. Ingestion of large quantities may cause central nervous system effects.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Chloroxylenol	= 3830 mg/kg ( Rat )		
Triethylene glycol	= 15000 mg/kg (Rat)	= 22460 mg/kg ( Rabbit )	
Ethyl alcohol	7060 mg/kg (Rat)		124.7 mg/L (Rat)4 h

#### **Chronic Toxicity**

**Chronic Toxicity** Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic

> beverage. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage. May cause adverse liver effects. May cause adverse kidney

effects.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl alcohol	A3	Group 1	Known	X

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP: (National Toxicity Program) Known - Known Carcinogen

**OSHA: (Occupational Safety & Health Administration)** 

X - Present

Sensitization May cause sensitization by skin contact.

**Reproductive Toxicity** Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic

beverage.

**Target Organ Effects** Central nervous system (CNS). Eyes. Liver. Kidney.

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Ethyl alcohol		LC50 96 h: 12.0 - 16.0 mL/L	EC50 = 34634 mg/L 30 min	LC50 48 h: 9268 - 14221
		static (Oncorhynchus mykiss)	EC50 = 35470 mg/L 5 min	mg/L (Daphnia magna)
		LC50 96 h: 13400 - 15100	_	EC50 24 h: = 10800 mg/L
		mg/L flow-through		(Daphnia magna)
		(Pimephales promelas)		EC50 48 h: = 2 mg/L Static
		LC50 96 h: > 100 mg/L static		(Daphnia magna)
		(Pimephales promelas)		
Triethylene glycol		LC50 96 h: 56200-63700	EC50 = 850 mg/L 5 min	EC50 48 h: = 42426 mg/L
		mg/L flow-through		(Daphnia magna)
		(Pimephales promelas)		
		LC50 96 h: = 10000 mg/L		
		static (Lepomis macrochirus)		
		LC50 96 h: = 61000 mg/L		
		flow-through (Lepomis		
		macrochirus)		
Chloroxylenol		LC50 96 h: 0.13-1.0 mg/L	EC50 = 1.6 mg/L 5 min	EC50 48 h: 6.7 - 9 mg/L
		static (Oncorhynchus mykiss)		Static (Daphnia magna)
		LC50 96 h: 1.3-2.1 mg/L		
		static (Lepomis macrochirus)		

Chemical Name	Log Pow
Ethyl alcohol	-0.32
Triethylene glycol	-1.98

# 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of contents/container in accordance with local regulation

Contaminated Packaging Do not re-use empty containers.

Chemical Name	California Hazardous Waste
Ethyl alcohol	Toxic
·	Ignitable

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

**TDG** Not regulated

MEX Not regulated

### 15. REGULATORY INFORMATION

**International Inventories** 

**IECSC** Complies

# **15. REGULATORY INFORMATION**

**AICS** 

Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### **U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Acute Health Hazard

Chronic Health Hazard

Fire Hazard

Sudden Release of Pressure Hazard

No
Reactive Hazard

No

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### **U.S. State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name	CAS-No	California Prop. 65
Ethyl alcohol	64-17-5	Developmental

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Triethylene glycol			X		Χ
Ethyl alcohol	X	X	X	-	X

### International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
Ethyl alcohol		Mexico: TWA= 1900 mg/m <sup>3</sup>
		Mexico: TWA= 1000 ppm

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

#### **WHMIS Hazard Class**

D2B Toxic materials



### **16. OTHER INFORMATION**

Prepared By Product Stewardship

23 British American Blvd.

Latham, NY 12110 1-800-572-6501 14-Nov-2011

Issuing Date

**Revision Date** 

Revision Note Initial Release.

### General Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**