

Material Safety Data Sheet

Issuing Date 07-Feb-2011

Revision Date

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Rexafoamer Shampoo

Manufacturer Address

Rexair LLC
230 Seventh Street
Cadillac, MI 49601 USA
TEL: 231-775-3413

Distributor

Rexair LLC
50 W. Big Beaver
Suite 350
Troy, MI 48084 USA
TEL: 248-643-7222

Emergency Telephone Number

248-643-7222

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

Harmful if swallowed
Irritating to eyes, respiratory system and skin
May cause sensitization by skin contact
May cause central nervous system depression

Appearance Clear

Physical State Liquid.

Odor No information available

Potential Health Effects

Principle Routes of Exposure

Inhalation. Skin contact. Eye contact.

Acute Toxicity

Eyes

Irritating to eyes.

Skin

Irritating to skin.

Inhalation

Irritating to respiratory system. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

Ingestion

Ingestion may cause irritation to mucous membranes.

Chronic Effects

Repeated contact may cause allergic reactions in very susceptible persons.

Aggravated Medical Conditions

Pre-existing eye disorders. Skin disorders. Respiratory disorders. Central nervous system.

Environmental Hazard

See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Sodium lauryl sulfate	151-21-3	15-40
Isopropyl alcohol	67-63-0	3-7

4. FIRST AID MEASURES

Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Consult a physician.
Inhalation	Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.
Ingestion	Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable.			
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 Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
NFPA	Health Hazard 2	Flammability 0	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 2*	Flammability 0	Physical Hazard 0	Personal Protection -

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.
Environmental Precautions	Prevent entry into waterways, sewers, basements or confined areas. Prevent product from entering drains.
Methods for Containment	Dike far ahead of liquid spill for later disposal.
Methods for Cleaning Up	Dam up. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling	Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Remove and wash contaminated clothing before re-use.
Storage	Keep containers tightly closed in a cool, well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m ³ TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m ³

OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Engineering Measures Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment

Eye/Face Protection
Skin and Body Protection
Respiratory Protection

Goggles.
Wear protective gloves/clothing.
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear.	Odor	No information available
Odor Threshold	No information available.	Physical State	Liquid
pH	No information available.	Autoignition Temperature	No information available.
Flash Point	No information available.	Boiling Point/Boiling Range	No information available
Decomposition Temperature	No information available.	Explosion Limits	No information available.
Melting Point/Range	No information available	Evaporation Rate	No information available
Flammability Limits in Air	No information available.	Vapor Density	No data available
Solubility	No information available		
Vapor Pressure	No data available		
VOC Content (%)	3.55		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	Strong oxidizing agents. Acids. Chlorinated compounds.
Conditions to Avoid	Excessive heat.
Hazardous Decomposition Products	Carbon oxides Sulfur oxides.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information No acute toxicity information is available for this product.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium lauryl sulfate	1288 mg/kg (Rat)	580 mg/kg (Rabbit)	>3900 mg/m ³ (Rat) 1 h
Isopropyl alcohol	4396 mg/kg (Rat)	12800 mg/kg (Rat) 12870 mg/kg (Rabbit)	72.6 mg/L (Rat) 4 h

Chronic Toxicity

Chronic Toxicity Repeated contact may cause allergic reactions in very susceptible persons.

Carcinogenicity Contains no ingredient listed as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol		Group 3 Group 1		X

Target Organ Effects Respiratory system. Central nervous system (CNS).

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium lauryl sulfate	EC50 96 h: 3.59 - 15.6 mg/L static (Pseudokirchneriella subcapitata) EC50 96 h: 30 - 100 mg/L (Desmodesmus subspicatus) EC50 96 h: = 117 mg/L (Pseudokirchneriella subcapitata) EC50 72 h: = 53 mg/L (Desmodesmus subspicatus)	LC50 96 h: 10.2-22.5 mg/L semi-static (Pimephales promelas) LC50 96 h: 10.8-16.6 mg/L static (Poecilia reticulata) LC50 96 h: 13.5-18.3 mg/L semi-static (Poecilia reticulata) LC50 96 h: 15-18.9 mg/L static (Pimephales promelas) LC50 96 h: 22.1-22.8 mg/L static (Pimephales promelas) LC50 96 h: 4.06-5.75 mg/L static (Lepomis macrochirus) LC50 96 h: 4.2-4.8 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 4.3-8.5 mg/L static (Oncorhynchus mykiss) LC50 96 h: 5.8-7.5 mg/L static (Pimephales promelas) LC50 96 h: 6.2-9.6 mg/L (Pimephales promelas) LC50 96 h: 8-12.5 mg/L static (Pimephales promelas) LC50 96 h: 9.9-20.1 mg/L semi-static (Brachydanio rerio) LC50 96 h: = 1.31 mg/L semi-static (Cyprinus carpio) LC50 96 h: = 4.2 mg/L (Oncorhynchus mykiss) LC50 96 h: = 4.5 mg/L (Lepomis macrochirus) LC50 96 h: = 4.62 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 7.97 mg/L flow-through (Brachydanio rerio)	EC50 = 0.46 mg/L 30 min EC50 = 0.72 mg/L 15 min EC50 = 1.19 mg/L 5 min	EC50 48 h: = 1.8 mg/L (Daphnia magna)
Isopropyl alcohol	EC50 72 h: > 1000 mg/L (Desmodesmus subspicatus) EC50 96 h: > 1000 mg/L (Desmodesmus subspicatus)	LC50 96 h: = 11130 mg/L static (Pimephales promelas) LC50 96 h: = 9640 mg/L flow-through (Pimephales promelas) LC50 96 h: > 1400000 µg/L (Lepomis macrochirus)		EC50 48 h: = 13299 mg/L (Daphnia magna)

Chemical Name	Log Pow
Sodium lauryl sulfate	1.6
Isopropyl alcohol	0.05

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Do not re-use empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Isopropyl alcohol	Toxic Ignitable

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - 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	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
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.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Isopropyl alcohol			X		

International Regulations**Mexico - Grade**

No information available.

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

**Canadian National Pollutant Release Inventory (NPRI)**

Chemical Name	NPRI
Isopropyl alcohol	X

Legend

X - Listed

16. OTHER INFORMATION

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Issuing Date 07-Feb-2011

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