

# SAFETY DATA SHEET

Issuing Date 07-Feb-2011

Revision Date 06-Nov-2015

Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

**Product Name** Rexafoamer Shampoo

### Other means of identification

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Shampoo

**Uses advised against** No information available

### Supplier's details

#### **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

**Emergency Telephone Number** 248-643-7222

## 2. HAZARDS IDENTIFICATION

### Classification

This product is considered hazardous by the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

### GHS Label elements, including precautionary statements

#### Emergency Overview

#### **Signal Word**

#### **Hazard Statements**

- Causes skin irritation
- Causes serious eye irritation

#### **Warning**



**Appearance** Clear.

**Physical State** Liquid.

**Odor** No information available.

**Precautionary Statements****Prevention**

- Wash face, hands and any exposed skin thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.

**General Advice**

- None

**Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

**Skin**

- IF ON SKIN: Wash with plenty of soap and water.
- If skin irritation occurs: Get medical advice/attention.
- Take off contaminated clothing and wash before reuse.

**Storage**

- None

**Disposal**

- None

**Hazard Not Otherwise Classified (HNOC)**

Not applicable.

**Other information**

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

3.75% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
Sodium lauryl sulfate	151-21-3	10-30	*
Isopropyl alcohol	67-63-0	1-5	*

*\*The exact percentage (concentration) of composition has been withheld as a trade secret.*

### 4. FIRST AID MEASURES

**Description of necessary first-aid measures****Eye Contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause irritation of the eye in some individuals.

**Skin Contact**

Wash skin with soap and water. If skin irritation or rash occurs: Get medical advice/attention.

**Inhalation**

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

**Ingestion**

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

**Most important symptoms/effects, acute and delayed**

**Most Important Symptoms/Effects** Irritation.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically. May cause sensitization by inhalation and skin contact.

## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** None

### **Specific Hazards Arising from the Chemical**

Non-combustible.

#### **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.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

### **Environmental Precautions**

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. See Section 12 for additional Ecological Information. Do not flush into surface water or sanitary sewer system.

### **Methods and materials for containment and cleaning up**

**Methods for Containment** Dike to collect large liquid spills.

**Methods for Cleaning Up** Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Use personal protective equipment. Take up mechanically and collect in suitable container for disposal.

## 7. HANDLING AND STORAGE

### **Precautions for safe handling**

**Handling** Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

### **Conditions for safe storage, including any incompatibilities**

**Storage** Keep container tightly closed.

**Incompatible Products** Strong oxidizing agents.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control parameters**

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
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Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m <sup>3</sup> (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m <sup>3</sup>	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m <sup>3</sup> TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>
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ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

### Appropriate engineering controls

**Engineering Measures** None under normal use conditions.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** None required for consumer use.  
**Skin and Body Protection** Wear protective gloves  
**Respiratory Protection** None required under normal usage.

**Hygiene Measures** When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid.	<b>Appearance</b>	Clear.
<b>Odor</b>	No information available.	<b>Odor Threshold</b>	No information available.

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
<b>pH</b>	No data available	None known
<b>Melting Point/Range</b>	No data available	None known
<b>Boiling Point/Boiling Range</b>	No data available	None known
<b>Flash Point</b>	No data available	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limits in Air</b>		
upper flammability limit	No data available	
lower flammability limit	No data available	
<b>Vapor Pressure</b>	No data available	None known
<b>Vapor Density</b>	No data available	None known
<b>Specific Gravity</b>	No data available	None known
<b>Water Solubility</b>	No data available	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition Temperature</b>	No data available	None known
<b>Decomposition Temperature</b>	No data available	None known
<b>Viscosity</b>	No data available	None known

<b>Flammable Properties</b>	Not flammable
<b>Explosive Properties</b>	No data available
<b>Oxidizing Properties</b>	No data available

### Other information

<b>VOC Content (%)</b>	No data available
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## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

None known based on information supplied.

**Incompatible materials**

Strong oxidizing agents.

**Hazardous decomposition products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information.
<b>Inhalation</b>	There is no data available for this product.
<b>Eye Contact</b>	There is no data available for this product.
<b>Skin Contact</b>	There is no data available for this product.
<b>Ingestion</b>	There is no data 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 <sup>3</sup> ( Rat ) 1 h
Isopropyl alcohol	= 4396 mg/kg ( Rat )	12800 mg/kg ( Rat ) 12870 mg/kg ( Rabbit )	72.6 mg/L ( Rat ) 4 h

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Irritation

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Sensitization** No information available.  
**Mutagenic Effects** No information available.  
**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol		Group 3		

**IARC: (International Agency for Research on Cancer)**

Group 3 - Not Classifiable as to its Carcinogenicity to Humans

**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration Hazard** No information available.

**Numerical measures of toxicity - Product**

**Acute Toxicity** 3.75% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

**LD50 Oral** 6568 mg/kg; Acute toxicity estimate

**LD50 Dermal** 5828 mg/kg; Acute toxicity estimate

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium lauryl sulfate 151-21-3	EC50 72 h: = 53 mg/L (Desmodesmus subspicatus) EC50 96 h: 30 - 100 mg/L (Desmodesmus subspicatus) EC50 96 h: = 117 mg/L (Pseudokirchneriella subcapitata) EC50 96 h: 3.59 - 15.6 mg/L static (Pseudokirchneriella subcapitata)	LC50 96 h: 8 - 12.5 mg/L static (Pimephales promelas) 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: 4.3 - 8.5 mg/L static (Oncorhynchus mykiss) LC50 96 h: = 4.62 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 4.2 mg/L (Oncorhynchus mykiss) LC50 96 h: = 7.97 mg/L flow-through (Brachydanio rerio) LC50 96 h: 9.9 - 20.1 mg/L semi-static (Brachydanio rerio) 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: = 4.5 mg/L (Lepomis macrochirus) LC50 96 h: 5.8 - 7.5 mg/L static (Pimephales promelas) LC50 96 h: 10.2 - 22.5 mg/L semi-static (Pimephales promelas) LC50 96 h: 6.2 - 9.6 mg/L (Pimephales promelas) LC50 96 h: 13.5 - 18.3 mg/L semi-static (Poecilia reticulata) LC50 96 h: 10.8 - 16.6 mg/L static (Poecilia reticulata) LC50 96 h: = 1.31 mg/L semi-static (Cyprinus carpio)	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 67-63-0	EC50 96 h: > 1000 mg/L (Desmodesmus subspicatus) EC50 72 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)
Sodium sulfate 7757-82-6		LC50 96 h: 13500 - 14500 mg/L (Pimephales promelas) LC50 96 h: 3040 - 4380 mg/L static (Lepomis macrochirus) LC50 96 h: = 13500 mg/L (Lepomis macrochirus) LC50 96 h: > 6800 mg/L static (Pimephales promelas)		EC50 48 h: = 2564 mg/L (Daphnia magna) EC50 96 h: = 630 mg/L (Daphnia magna)

1-Dodecanol 112-53-8	EC50 96 h: = 0.62 mg/L (Desmodesmus subspicatus) EC50 96 h: = 0.97 mg/L (Desmodesmus subspicatus) EC50 96 h: = 2.7 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: = 1.01 mg/L flow-through (Pimephales promelas) LC50 96 h: = 0.1855 mg/L (Pimephales promelas) LC50 48 h: > 5000 mg/L (Leuciscus idus) LC50 96 h: 4.78 - 8.85 mg/L static (Oncorhynchus mykiss) LC50 96 h: 3.6 - 5.1 mg/L static (Lepomis macrochirus)	EC50 = 0.038 mg/L 5 min EC50 = 0.043 mg/L 15 min EC50 = 0.057 mg/L 30 min EC50 = 2 mg/L 48 h	EC50 48 h: = 320 mg/L (Daphnia magna) EC50 48 h: = 8.5 mg/L (Daphnia magna) EC50 48 h: 4.78 - 8.87 mg/L Static (Daphnia magna)
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**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

Chemical Name	Log Pow
Sodium lauryl sulfate	1.6
Isopropyl alcohol	0.05

**Other Adverse Effects**

No information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** Dispose of in accordance with local regulations.

**Contaminated Packaging** Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

**DOT** Not regulated

**TDG**

**UN-Number** UN3082  
**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard Class** 9  
**Packing Group** III  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Sodium Lauryl Sulfate), 9, III, Marine Pollutant

**MEX**

**UN-Number** UN3082  
**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard Class** 9  
**Packing Group** III  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (1-Dodecanol), 9, III

**ICAO**

**UN-Number** UN3082  
**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard Class** 9  
**Packing Group** III  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Sodium Lauryl Sulfate), 9, III

**IATA**

**UN-Number** UN3082  
**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard Class** 9  
**Packing Group** III  
**ERG Code** 9L  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Sodium Lauryl Sulfate), 9, III

**IMDG/IMO**

**UN-Number** UN3082

<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>EmS No.</b>	F-A, S-F
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Sodium Lauryl Sulfate), 9, III, Marine Pollutant

**RID**

<b>UN-Number</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Classification Code</b>	M6
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Sodium Lauryl Sulfate), 9, III

**ADR**

<b>UN-Number</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Classification Code</b>	M6
<b>Tunnel Restriction Code</b>	(E)
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Sodium Lauryl Sulfate), 9, III, (E)

**ADN**

<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Classification Code</b>	M6
<b>Special Provisions</b>	274, 335, 375, 601
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Sodium Lauryl Sulfate), 9, III
<b>Limited Quantity</b>	5 L

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

<b>TSCA</b>	Complies
<b>DSL</b>	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**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	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**

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

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	Health Hazard 2	Flammability 0	Instability 0	Physical and Chemical Hazards -
<b><u>HMIS</u></b>	Health Hazard 2	Flammability 0	Physical Hazard 0	Personal Protection X

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

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**General Disclaimer**

The information provided on this SDS 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**