

# SAFETY DATA SHEET

Energy Mizer  
295 Edwardia Drive  
Greensboro, NC 27409  
Telephone: 800-627-5634

## 1. Identification

<b>Product identifier</b>	<b>LD-416</b>
<b>Chemical name</b>	POLYETHYLENE GLYCOL NONYLPHENYL ETHER
<b>Synonym(s)</b>	Alkylphenol ether; Surfonic
<b>CAS number</b>	9016-45-9
<b>Chemical formula</b>	(C2-H4-O)MULT-C15-H24-O
<b>Other means of identification</b>	
<b>Product code</b>	Not available.
<b>Recommended use</b>	Laundry Soap
<b>Recommended restrictions</b>	Professional Use Only
<b>Chemical family</b>	Homopolymer / nonionic surfactant
<b>Manufacturer</b>	Refer to Supplier
<b>Website</b>	<a href="http://www.energymizer.net">http://www.energymizer.net</a>
<b>E-Mail</b>	Not available.
<b>Supplier information</b>	
<b>Company name</b>	Energy Mizer
<b>Address</b>	295 Edwardia Dr. Greensboro, NC, USA 27409
<b>Telephone</b>	(800) 627 5634
<b>Emergency phone number</b>	(800)-627-5634

## 2. Hazard(s) Identification

Clear, blue liquid.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

:

<b>Physical hazards</b>	This mixture does not meet the classification criteria according to OSHA Hazcom 2012
<b>Health hazards</b>	Eye Damage/Irritation - Category 2A Skin Corrosion/Irritation - Category 2
<b>Environmental hazards</b>	Not currently regulated by OSHA, refer to Section 12 for additional information.
<b>OSHA defined hazards</b>	This mixture does not meet the classification criteria according to OSHA Hazcom 2012

### Label elements



<b>Signal Word</b>	WARNING!
<b>Hazard statement(s)</b>	Causes skin irritation. Causes eye irritation.
<b>Precautionary statement(s)</b>	
<b>Prevention</b>	Wash thoroughly after handling. Wear protective gloves and eye/face protection.

# SAFETY DATA SHEET

Energy Mizer  
295 Edwardia Drive  
Greensboro, NC 27409  
Telephone: 800-627-5634

## Response

If on skin: Wash with plenty of soap and water.  
If skin irritation occurs, get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
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.

## Storage

None required.

## Disposal

None required.

## Hazard(s) not otherwise Classified (HNOC)

Other hazards which do not result in classification:  
May cause respiratory irritation. Burning produces obnoxious and toxic fumes.  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## Supplemental Information

None.

## 3. Composition/information on ingredients

### Soap Solution

Chemical name	Common name and synonyms	CAS number	Concentration (%)
Surfactant	Polyethylene glycol nonylphenyl ether	9016-45-9	15.50

## 4. First-aid measures

### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Seek immediate medical attention/advice.

### Skin contact

Remove/Take off immediately all contaminated clothing. Flush skin thoroughly with running water for at least 15 to 20 minutes. Wash contaminated clothing before reuse.

### Eye contact

Flush with large amounts of water for 15 minutes. Obtain medical attention immediately.

### Ingestion

Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Seek immediate medical attention/advice.

### Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis. Causes skin irritation. Symptoms may include redness, blistering, pain and swelling. May cause respiratory irritation. Symptoms may include coughing, choking and wheezing. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### General Information

None reported by the manufacturer.

## 5. Fire-fighting measures

### Suitable extinguishing media

Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

### Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

### Specific hazards arising from the chemical

Not considered flammable. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

### Special protective equipment and precautions for fire-fighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

# SAFETY DATA SHEET

Energy Mizer  
295 Edwardia Drive  
Greensboro, NC 27409  
Telephone: 800-627-5634

<b>Fire-fighting equipment/instructions</b>	Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Use water to cool fire-exposed containers. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply or any natural waterway. Dike for water control.
<b>Specific methods</b>	Burning produces obnoxious and toxic fumes.
<b>General fire hazards</b>	Not flammable.
<b>Hazardous combustion products</b>	Carbon dioxide and carbon monoxide.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.
<b>Methods and materials for containment and cleaning up</b>	Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Dike for water control. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.
<b>Environmental precautions</b>	Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Wear protective gloves and eye/face protection. Use only in well-ventilated areas. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment. Avoid breathing fumes or mists. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from heat and flame. Keep away from incompatibles. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a well-ventilated place. Keep container tightly closed. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

## 8. Exposure controls/personal protection

### Occupational exposure limits

No exposure limits noted for the ingredient(s).

### Biological limit values

<b>Appropriate engineering controls</b>	Use only in well-ventilated areas. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.
---	---

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

<b>Eye / face protection</b>	Chemical splash goggles must be worn when handling this material.
<b>Skin protection</b>	
<b>Hand protection</b>	Wear protective gloves. Advice should be sought from glove suppliers.
<b>Other</b>	An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.
<b>Respiratory protection</b>	Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. A self contained breathing apparatus should be used in emergency situations or instances where exposure levels are not known. Seek advice from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

# SAFETY DATA SHEET

Energy Mizer  
295 Edwardia Drive  
Greensboro, NC 27409  
Telephone: 800-627-5634

<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Avoid breathing fumes or mists. Do not ingest. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

## 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	Liquid
<b>Form</b>	Blue liquid.
<b>Color</b>	Blue
<b>Odor</b>	Mild odor.
<b>Odor threshold</b>	Not applicable.
<b>pH</b>	6.5-7.5
<b>Melting point /freezing point</b>	5°C (41°F)
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	237.78°C (460°F) closed cup
<b>Evaporation rate</b>	N/Av
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Lower flammability/explosive limit</b>	Not applicable.
<b>Upper flammability/explosive limit</b>	Not applicable.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	1.06
<b>Solubility(ies)</b>	
<b>Other solubility(ies)</b>	Not available.
<b>Solubility (water)</b>	Very soluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	N/Av
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	1.12 cm/s
<b>Other information</b>	
<b>Explosive properties</b>	Not explosive
<b>Oxidizing properties</b>	None known.
<b>Specific gravity</b>	1.06
<b>Critical temperature</b>	Not applicable.
<b>VOC</b>	N/Av
<b>Volatilities %</b>	Not available.
<b>Other physical/chemical data</b>	None known or reported by the manufacturer.

## 10. Stability and reactivity

<b>Reactivity</b>	Not normally reactive.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Avoid heat and open flame. Keep away from incompatibles. Keep container tightly closed when not in use.

# SAFETY DATA SHEET

Energy Mizer  
295 Edwardia Drive  
Greensboro, NC 27409  
Telephone: 800-627-5634

**Incompatible materials**                      Oxidizing agents (strong)  
**Hazardous decomposition products**      None known, refer to hazardous combustion products in Section 5.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Routes of entry inhalation</b>	YES
<b>Routes of entry skin &amp; eye</b>	YES
<b>Routes of entry Ingestion</b>	YES
<b>Routes of exposure skin absorption</b>	NO

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

May cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, choking and wheezing. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis. Causes skin irritation. Symptoms may include redness, blistering, pain and swelling. May cause respiratory irritation. Symptoms may include coughing, choking and wheezing. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

### Information on toxicological effects

**Acute toxicity**                                      See below for toxicological data on the substance.  
The calculated ATE values for this mixture are:  
ATE dermal = 12903.22 mg/kg  
ATE oral = 8451.61 mg/kg

Components	Species	Test Results
Surfactant		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	N/Av
<i>Oral</i>		
LD50	Rat	1310 mg/kg
<b>Skin Corrosion/Irritation</b>	Skin Corrosion/Irritation - Category 2 Causes skin irritation. Symptoms may include redness, itching and swelling.	
<b>Serious eye damage/Irritation</b>	Eye Damage/Irritation - Category 2A Causes eye irritation. Symptoms may include tearing, redness and discomfort.	
<b>Respiratory or skin sensitization</b>	Not expected to be a skin or respiratory sensitizer.	
<b>Germ cell mutagenicity</b>	Not expected to be mutagenic in humans.	
<b>Carcinogenicity</b>	No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.	
<b>Reproductive toxicity</b>	Not expected to have other reproductive effects.	
<b>Specific target organ toxicity - single exposure</b>	The substance or mixture is not classified as specific target organ toxicant, single exposure.	
<b>Specific target organ toxicity - repeated exposure</b>	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.	
<b>Chronic effects</b>	Prolonged or repeated contact may cause drying, cracking and defatting of the skin.	

# SAFETY DATA SHEET

Energy Mizer  
295 Edwardia Drive  
Greensboro, NC 27409  
Telephone: 800-627-5634

**Aspiration toxicity** This substance or mixture is not classified as an aspiration hazard.

**Further information** None known or reported by the manufacturer.

## 12. Ecological information

**Ecotoxicity** See the following tables for the substance's ecotoxicity data.  
The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

<b>Ecotoxicity data:</b>				
Ingredients	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Surfactant	9016-45-9	1.3 mg/L (Bluegill sunfish)	N/Av	None.

Ingredients	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Surfactant	9016-45-9	4.8 mg/L (Daphnia magna)	N/Av	None.

Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Surfactant	9016-45-9	N/Av	N/Av	None.

**Persistence and degradability** Readily biodegradable.

**Bioaccumulation potential** No data is available on the product itself.

<u>Components</u>	<u>Partition coefficient n-octanol/ater (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Surfactant (CAS 9016-45-9)	3.7	<0.2 to <1.4

**Mobility in soil** No data is available on the product itself.

**Other adverse effects** No data is available on the product itself.

## 13. Disposal consideration

**Disposal instructions** Handle waste according to recommendations in Section 7.

**Local disposal regulations** Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

**Hazardous waste code** If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

**Waste from residues / unused products**

**Contaminated packaging**

## 14. Transport information

<p><b>TDG</b></p> <p style="text-align: center;"><b>Not regulated as dangerous goods</b></p>
--

# SAFETY DATA SHEET

Energy Mizer  
295 Edwardia Drive  
Greensboro, NC 27409  
Telephone: 800-627-5634

## 49CFR/DOT

Not regulated as dangerous goods

**General information** None reported by the manufacturer.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

## 15. Regulatory information

**US Federal Information:** SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard . Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Surfactant	9016-45-9	Yes	None.	None.	No	N/Ap

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories**

Immediate Hazard -	Yes
Delayed Hazard -	No
Fire Hazard -	No
Pressure Hazard -	No
Reactivity Hazard -	No

## US state regulations

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Surfactant	9016-45-9	No	N/Ap	No	No	No	No	No	No

## Canadian Information:

Refer to Section 2 for a WHMIS Classification for this product. Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

**Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).**

## International Inventories

Components listed below are present on the following International Inventory lists:

# SAFETY DATA SHEET

Energy Mizer  
295 Edwardia Drive  
Greensboro, NC 27409  
Telephone: 800-627-5634

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECS</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>NewZealand IOC</u>
Surfactant	9016-45-9	500-024-6	Present	Present	(7)-172	KE-26244	Present	HSR003054; HSNO Approval: HSR006598, HSR006618 (dilution)

## 16. Other information, including date of preparation or last revision

**Issue date** 06/09/2015  
**Version #** 1  
**Legend**  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 CA: California  
 CAS: Chemical Abstract Services  
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
 CFR: Code of Federal Regulations  
 CSA: Canadian Standards Association  
 DOT: Department of Transportation  
 EPA: Environmental Protection Agency  
 HMIS: Hazardous Materials Identification System  
 HSDB: Hazardous Substances Data Bank  
 IARC: International Agency for Research on Cancer  
 IATA: International Air Transport Association  
 ICAO: International Civil Aviation Organisation  
 IMDG: International Maritime Dangerous Goods  
 Inh: Inhalation  
 LC: Lethal Concentration  
 LD: Lethal Dose  
 MA: Massachusetts  
 MN: Minnesota  
 N/Ap: Not Applicable  
 N/Av: Not Available  
 NFPA: National Fire Protection Association  
 NIOSH: National Institute of Occupational Safety and Health  
 NJ: New Jersey  
 NTP: National Toxicology Program  
 OSHA: Occupational Safety and Health Administration  
 PA: Pennsylvania  
 PEL: Permissible exposure limit  
 RCRA: Resource Conservation and Recovery Act  
 RI: Rhode Island  
 RTECS: Registry of Toxic Effects of Chemical Substances  
 SARA: Superfund Amendments and Reauthorization Act  
 STEL: Short Term Exposure Limit  
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
 TLV: Threshold Limit Values  
 TWA: Time Weighted Average  
 WHMIS: Workplace Hazardous Materials Identification System

### Other special considerations for handling

: Provide adequate information, instruction and training for operators.

**HMIS Rating** : \* - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe  
*Health:* \*1 *Flammability:* 0 *Reactivity:* 0

**NFPA Rating** 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe  
 : *Health:* 1 *Flammability:* 0 *Instability:* 0 *Special Hazards:* None.



# SAFETY DATA SHEET

Energy Mizer  
295 Edwardia Drive  
Greensboro, NC 27409  
Telephone: 800-627-5634

## Disclaimer

Prepared by: ICC The Compliance Center Inc.  
<http://www.thecompliancecenter.com>

This Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Energy Mizer and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Energy Mizer. expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and Energy Mizer.

## Bibliography

Canadian Centre for Occupational Health and Safety, CCIInfoWeb Databases, 2015  
(Chempendium, RTECs, HSDB, INCHEM).  
European Chemicals Agency, Classification Legislation, 2015  
Material Safety Data Sheet from manufacturer  
OECD- The Global Portal to Information on Chemical Substances - eChemPortal,  
2015