



## VAPCO PRODUCTS, INC.

### Safety Data Sheet Low Temp Bubbles

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#### SECTION 1: Identification

##### 1.1 GHS Product identifier

Product name	Low Temp Bubbles
Product number	LDL-1, LDL-1/2P, LDL-1Q
Brand	Vapco

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

Low temperature leak detector

##### 1.4 Supplier's details

Name	Vapco Products, Inc.
Address	401 Marshall Road Valley Park, Missouri 63088 United States
Telephone	(636) 923-2121
Fax	(636) 923-3002
email	info@VapcoProducts.com

##### 1.5 Emergency phone number

(800) 255-3924

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#### SECTION 2: Hazard identification

##### 2.1 Classification of the substance or mixture

**GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2024)**

- Acute toxicity, oral, Cat. 4
- Eye damage/irritation, Cat. 2B
- Skin corrosion/irritation, Cat. 2
- Specific target organ toxicity (repeated exposure), Cat. 2
- Specific target organ toxicity (single exposure), Cat. 1

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### 2.2 GHS label elements, including precautionary statements

#### Pictograms



#### Signal word

#### Warning

#### Hazard statement(s)

H302	Harmful if swallowed
H315	Causes skin irritation
H320	Causes eye irritation
H370	Causes damage to organs [Central nervous system, Kidneys] by ingestion.
H373	May cause damage to organs [Kidneys] through prolonged or repeated exposure [if swallowed].

#### Precautionary statement(s)

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves.
P301+P312	IF SWALLOWED: Call a POISON CENTER /doctor if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see First Aid on this label).
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container to the specifications of local, regional, national, and international regulations.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

##### 1. Ethylene glycol

Concentration	20 - 30 % (weight)
EC no.	203-473-3
CAS no.	107-21-1
Index no.	603-027-00-1

##### 2. Alkylphenol ethoxylate

Concentration	5 - 15 % (weight)
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EC no.	500-315-8
CAS no.	127087-87-0

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### SECTION 4: First-aid measures

#### 4.1 Description of necessary first-aid measures

General advice	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
If inhaled	First, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable for breathing. Get medical advice/attention.
In case of skin contact	Immediately drench affected area with water for at least 15 minutes. Remove contaminated clothing immediately. Obtain medical attention if irritation develops or persists.
In case of eye contact	Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.
If swallowed	Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

#### 4.2 Most important symptoms/effects, acute and delayed

**Acute Health Hazards:** Harmful if swallowed. May cause skin and/or eye irritation. Convulsions. Dizziness. Nausea, vomiting. Abdominal pain. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation may cause redness and pain. Prolonged exposure may cause chronic effects.

**Chronic Health Hazards:** Causes damage to organs [Central nervous system, Kidneys] by ingestion. May cause damage to organs [Kidneys] through prolonged or repeated exposure if swallowed.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand. Treat symptomatically. Treatment with ethyl alcohol is indicated if toxic ingestion is suspected or if there is metabolic acidosis following ingestion of this product. Administer ethyl alcohol sufficient to maintain blood ethyl alcohol levels of above 100 mg/dL. 4-Methylpyrazole (Fomepizole, Antizole) is also a recognized antidote for this product.

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### SECTION 5: Fire-fighting measures

#### 5.1 Suitable extinguishing media

Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, dry chemical, or sand. Use appropriate media for surrounding fire.

#### 5.2 Specific hazards arising from the chemical

None known.

#### 5.3 Special protective actions for fire-fighters

**Precautionary Fire Measures:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use dry chemical, foam, or carbon dioxide (CO<sub>2</sub>). Do not breathe fumes from fire or

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vapors from decomposition. Do NOT fight fire when fire reaches containers. Evacuate area. Fight fire remotely due to the risk of explosion. Shut off all sources of ignition. Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. Wear NIOSH-approved Self-Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires.

**Hazardous Combustion Products:** Carbon oxide(s).

### Further information

Do not allow run-off from fire fighting to enter drains or water courses.

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## SECTION 6: Accidental release measures

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

**General Measures:** Do not get in eyes, on skin, or on clothing. Do not breathe vapors, spray, mist, gas. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel. Stop leak if safe to do so.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedure:** Eliminate ignition sources first, then ventilate the area. Evacuate unnecessary personnel, isolate, and ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### 6.2 Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

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

**For Containment:** Ventilate the area. Contain any spills with dikes or absorbents to prevent further migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Eliminate all ignition sources. Ventilate area. Stop the ignition source of the release, if safe to do so. Consider the use of water spray to disperse vapors. Isolate the area until gas has dispersed. Ventilate and gas test area before entering. Take up liquid spill into absorbent material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

**Waste Disposal:** Dispose of in accordance with local, regional, national, and international regulations. Containers may be hazardous when empty. Do not flame cut, braze, or weld. Product should be fully characterized prior to disposal (40 CFR 261).

### Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Precautions for Safe Handling:** Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Do not breathe gas, mist, spray, vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not spray on open flame or other ignition source.

**Additional Hazards When Processed:** Do not pressurize, cut, or weld containers. Do not pierce or burn, even after use.

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

**Other Precautions:** Keep out of reach of children. Follow label instructions. Vapors may collect in low lying areas.

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

**Technical Measures:** Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

**Storage Conditions:** Store in a dry, cool place. Keep only in the original container in a cool, well-ventilated place away from ignition sources. Protect from sunlight. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

**Incompatible Materials:** Strong oxidizing agents.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 1. Ethylene glycol (CAS: 107-21-1)

TWA (Inhalation): 10 mg/m<sup>3</sup>; AU (AU/SWA)

Other advisory: Sk

TWA [Ethylene glycol (vapour)] (Inhalation): 20 ppm; 52 mg/m<sup>3</sup>; AU (AU/SWA)

Other advisory: Sk

STEL [Ethylene glycol (vapour)] (Inhalation): 40 ppm; 104 mg/m<sup>3</sup>; AU (AU/SWA)

Other advisory: Sk

IOELV-LTEL [Ethane-1,2-diol] (Inhalation): 52 mg/m<sup>3</sup>; EU (EU/OSHA)

Skin designation: Yes. List no. 1 under Council Directive 98/24/EC as amended. List last updated on 8/29/2023.

IOELV-LTEL [Ethane-1,2-diol] (Inhalation): 20 ppm; EU (EU/OSHA)

Skin designation: Yes. List no. 1 under Council Directive 98/24/EC as amended. List last updated on 8/29/2023.

IOELV-STEL [Ethane-1,2-diol] (Inhalation): 104 mg/m<sup>3</sup>; EU (EU/OSHA)

Skin designation: Yes. List no. 1 under Council Directive 98/24/EC as amended. List last updated on 8/29/2023.

IOELV-STEL [Ethane-1,2-diol] (Inhalation): 40 ppm; EU (EU/OSHA)

Skin designation: Yes. List no. 1 under Council Directive 98/24/EC as amended. List last updated on 8/29/2023.

### 8.2 Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment. Proper grounding procedures to avoid static electricity should be followed. Use only outdoors or in well-ventilated area. Ensure all local, regional, national, and international regulations are being observed. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Chemical safety goggles. Insufficient ventilation: wear respiratory protection. Respiratory protection of the dependent type.

#### Skin protection

Wear protective gloves and clothing.

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### Body protection

Wear suitable protective clothing. Wear protective gloves. Chemical resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

### Respiratory protection

Use a NIOSH-approved Self-Containing Breathing Apparatus whenever exposure may exceed established Occupational Exposure Limits.

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Liquid
Appearance	Turbid liquid
Color	Green
Odor	Bland
Odor threshold	N/D
Melting point/freezing point	N/D
Boiling point or initial boiling point and boiling range	>212°F (100°C)
Flammability	Not considered a flammable liquid by OSHA (29 CFR 1910.1200)
Lower and upper explosion limit/flammability limit	N/D
Flash point	N/D
Auto-ignition temperature	N/D
Decomposition temperature	N/D
pH	8.5-9.5
Kinematic viscosity	135 cPs
Solubility	Soluble in water
Partition coefficient n-octanol/water (log value)	N/D
Vapor pressure	20 mmHg
Evaporation rate	<1
Density and/or relative density	1.00-1.02
Relative vapor density	>2

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under normal conditions of use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

None known.

### 10.4 Conditions to avoid

Contact with incompatible materials.

### 10.5 Incompatible materials

Strong oxidizing agents.

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### 10.6 Hazardous decomposition products Carbon oxide(s).

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Alkylphenol ethoxylate

LD50 Oral - Rat - 960-3980 mg/kg

LC50 Inhalation - Rat - 1.15 mg/l - 4 hrs

LD50 Skin - Rabbit - 2000-2991 mg/kg

Ethylene glycol

LD50 Oral - Rat - 4700 mg/kg

LD50 Skin - Rabbit - 10626 - mg/kg

#### Skin corrosion/irritation

May cause skin irritation.

#### Serious eye damage/irritation

May cause eye irritation.

#### Respiratory or skin sensitization

Not a respiratory sensitizer. This product is not expected to cause skin sensitization.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

No data available.

#### Reproductive toxicity

No data available.

#### Specific target organ toxicity (STOT) - single exposure

Causes damage to organs.

#### Specific target organ toxicity (STOT) - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

The ATE (oral) of the mixture is: 1666.67 mg/kg bw. Not an aspiration hazard.

#### Additional information

**Acute Health Hazards:** Harmful if swallowed. May cause skin and/or eye irritation. Convulsions. Dizziness. Nausea, vomiting. Abdominal pain. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation may cause redness and pain. Prolonged exposure may cause chronic effects.

**Chronic Health Hazards:** Causes damage to organs [Central nervous system, Kidneys] by ingestion. May cause damage to organs [Kidneys] through prolonged or repeated exposure if swallowed.

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### SECTION 12: Ecological information

#### Toxicity

Alkylphenol ethoxylate

LC50 - Pimephales promelas (fathead minnow) - 3.8-6.2 mg/l - 96 hrs

LC50 - Daphnia magna (water flea) - 9.3-21.4 mg/l

IC50 - Bacteria - >1000 mg/l - 16 hrs

Ethylene glycol

LC50 - Oncorhynchus mykiss (rainbow trout) - 18500 mg/l - 96 hrs

LC50 - Leuciscus idus (golden orfe) - >10000 mg/l - 48 hrs

NOEC - Pimephales promelas (fathead minnow) - 32000 mg/l - 7 days

NOEC - Pimephales promelas (fathead minnow) - 39140 mg/l - 96 hrs

EC50 - Daphnia magna (water flea) - 74000 mg/l - 24 hrs

NOEC - Daphnia magna (water flea) - 24000 mg/l - 48 hrs

LC50 - Daphnia magna (water flea) - 41000 mg/l - 48 hrs

#### Persistence and degradability

This product is biodegradable.

#### Bioaccumulative potential

This product is not expected to bioaccumulate.

#### Mobility in soil

This product is mobile in soil.

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### SECTION 13: Disposal considerations

#### Disposal methods

##### Product disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations. Do not pierce or burn, even after use.

##### Sewage disposal

Avoid release into the environment. Keep out of sewers and waterways.

##### Other disposal recommendations

Container may remain hazardous when empty. Continue to observe all precautions. Do not puncture or incinerate container. Product should be fully characterized prior to disposal.

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### SECTION 14: Transport information

#### DOT (US)

UN Number: UN3082

Class: 9

Packing Group: III

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.



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### IMDG

UN Number: UN3082

Class: 9

Packing Group: III

EMS Number: N/A

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

### IATA

UN Number: UN3082

Class: 9

Packing Group: III

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### California Prop. 65 components

Chemical name: Ethylene glycol

CAS number: 107-21-1

#### California Proposition 65 Chemicals List

WARNING: This product can expose you to chemicals including Ethylene glycol (ingested), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov) for: Ethylene glycol.

#### Massachusetts Right To Know Components (105 CMR 670)

Chemical name: 1,2-DIHYDROXYETHANE

CAS number: 107-21-1

#### Massachusetts Toxic Use Reduction Act (TURA) list

Chemical name: Ethylene glycol

CAS number: 107-21-1

Chemical name: Poly(oxy-1,2-ethanediyl),  $\alpha$ -(4-nonylphenyl)- $\omega$ -hydroxy-, branched

CAS number: 127087-87-0

#### New Jersey Right To Know Components

Common name: ETHYLENE GLYCOL

CAS number: 107-21-1

#### Pennsylvania Right To Know Components

Chemical name: 1,2-ETHANEDIOL

CAS number: 107-21-1

#### US EPA TSCA public inventory

Chemical name: Ethylene glycol

CAS number: 107-21-1

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Chemical name: Alkylphenol ethoxylate  
CAS number: 127087-87-0

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### SECTION 16: Other information

N/A = Not applicable; N/D = Not determined

#### 16.1 Further information/disclaimer

To the best of our knowledge, information contained herein is accurate. However there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions of handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.

#### 16.2 Preparation information

Prepared by: Jessica Wilson  
Date prepared: 3/18/2025