



# LeoLight, Vesta Heat, VIEWS, Big Wick

## Safety Data Sheet

according to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations  
Issue date: 9/11/2025 Version: 1.0

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Substance  
Name : LeoLight, Vesta Heat, VIEWS, Big Wick  
CAS-No. : 111-46-6  
Product code : C200, C400, C600, ST200, ST400, ST600, X200, X400, X600, V420, V620  
Formula : C4H10O3

#### 1.2. Other means of identification

Synonyms : Diethylene glycol, DEG  
EC Index No. (Report) : 603-140-00-6  
EC-No. : 203-872-2

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

Use of the substance/mixture : Heat or source of heat  
Restrictions on use : Do not use in environments where temperatures exceed 120 °C (248 °).

#### 1.4. Supplier's details

Pico Hospitality Inc  
PO Box 93032  
Newmarket, ON L3Y 8K3  
Canada  
Tel.: +1 (800) 267-6428

#### 1.5. Emergency phone number

Emergency number : ChemTel Inc.  
+1 (800) 255-3924 (North America)  
+1 (801) 1 (813)248-0585 (International)

### SECTION 2 Hazard Identification

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

##### GHS classification

Acute toxicity (oral), Category 4	H302	Harmful if swallowed.
Specific target organ toxicity — Repeated exposure, Category 2	H373	May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS labeling

Hazard pictograms (GHS)



Signal word (GHS) : Warning  
Hazard statements (GHS) : H302 - Harmful if swallowed  
H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (oral)  
Precautionary statements (GHS) : P260 - Do not breathe mist, spray, vapors.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P301+P312 - If swallowed: Call a POISON CENTER, a doctor if you feel unwell.  
P314 - Get medical advice/attention if you feel unwell.  
P330 - Rinse mouth.

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P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

### 2.4. Hazards not otherwise classified

No additional information available

### 2.5. Unknown acute toxicity

No additional information available

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%	GHS classification
Diethylene glycol	CAS-No.: 111-46-6	≈ 100	Acute Tox. 4 (Oral), H302 STOT RE 2, H373

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4 First aid measures

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

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse eyes with water as a precaution. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a poison center/doctor/physician if you feel unwell.

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

Potential Adverse human health effects and symptoms : Harmful if swallowed. May cause damage to organs (kidneys) (oral).

Symptoms/effects after inhalation : None under normal conditions.

Symptoms/effects after skin contact : None under normal conditions.

Symptoms/effects after eye contact : None under normal conditions.

Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

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

Treatment : Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide. Sand.

### 5.2. Specific hazards arising from the chemical

Fire hazard : No fire hazard.

Explosion hazard : No direct explosion hazard.

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Hazardous decomposition products in case of fire : Toxic fumes may be released.

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

Firefighting instructions : Exercise caution when fighting any chemical fire. Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6 Accidental release measures

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

General measures : Stop leak if safe to do so. Absorb spillage to prevent material-damage. Notify authorities if product enters sewers or public waters.

#### For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel.

#### For emergency responders

Protective equipment : Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so. Ventilate area.

Environmental precautions : Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.2. Methods and materials for containment and cleaning up

For containment : Stop leak, if possible without risk. Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

For further information refer to section 13, See Heading 8, Exposure controls and personal protection.

## SECTION 7 Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash hands, forearms and face thoroughly after handling.

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Storage conditions : Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Keep container closed when not in use.

Packaging materials : Store always product in container of same material as original container.

## SECTION 8 Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

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### 8.2. Appropriate engineering controls

Appropriate engineering controls : Industrial and professional. Perform risk assessment prior to use.  
Environmental exposure controls : Avoid release to the environment.

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

#### Personal protective equipment:

Wear recommended personal protective equipment. Avoid all unnecessary exposure.

<b>Hand protection:</b>
None under normal use. In case of spills Wear chemically resistant protective gloves. Butyl rubber. VITON gloves.
<b>Eye protection:</b>
None under normal use. In case of splashing or aerosol production: protective goggles.
<b>Skin and body protection:</b>
None under normal use.
<b>Respiratory protection:</b>
None under normal use.

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

Physical state	: Liquid
Color	: Colorless
Odor	: Characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: -6.5 °C (20.3°F)
Freezing point	: No data available
Boiling point	: 244.9 °C (473°F) Atm. press.: 1013 hPa Decomposition: 'no'
Flash point	: 138 °C (280.4°F) Atm. press.: 1013,25 hPa
Flammability (solid, gas)	: Non flammable
Vapor pressure	: 0.008 hPa Temp.: 25 °C
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 1.1166 g/cm³ at 20 °C
Molecular mass	: 106.12 g/mol
Solubility	: Water: 1000 g/l
Log Pow	: -1.98 at 20 °C
Auto-ignition temperature	: 372 °C (701.6°F) Atm. press.: 1013,25 hPa
Decomposition temperature	: No data available
Viscosity, kinematic	: 26.867 mm²/s
Viscosity, dynamic	: 30 mPa·s Temp.: 'other:' Parameter: 'dynamic viscosity (in mPa s)'
Explosion limits	: No data available
Particle characteristics	: No data available

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10 Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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### 10.2. Chemical stability

Stable under normal conditions. Not established.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Not established.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11 Toxicological information

Likely routes of exposure : Skin and eye contact. Ingestion.

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

#### LeoLight, Vesta Heat, VIEWS, Big Wick (111-46-6)

LD50 Oral rat	12565 mg/kg (KOSHA database)
LD50 Oral	1120 mg/kg body weight (Laug, E. P., et al. (1939). The toxicology of glycols. Journal of Industrial Hygiene and Toxicology, 21, 173–201.)
LD50 Dermal rabbit	11890 mg/kg (KOSHA database)

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

#### LeoLight, Vesta Heat, VIEWS, Big Wick (111-46-6)

NOAEL (chronic,oral,animal/male,2 years)	1210 mg/kg body weight Animal: rat, Animal sex: male
NOAEL (chronic,oral,animal/female,2 years)	1160 mg/kg body weight Animal: rat, Animal sex: female

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

#### LeoLight, Vesta Heat, VIEWS, Big Wick (111-46-6)

LOAEL (oral,rat,90 days)	40000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
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Aspiration hazard : Not classified

#### LeoLight, Vesta Heat, VIEWS, Big Wick (111-46-6)

Viscosity, kinematic	26.867 mm²/s
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Potential Adverse human health effects and symptoms : Harmful if swallowed. May cause damage to organs (kidneys) (oral).

Symptoms/effects after inhalation : None under normal conditions.

Symptoms/effects after skin contact : None under normal conditions.

Symptoms/effects after eye contact : None under normal conditions.

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Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

### SECTION 12 Ecological information

#### 12.1. Ecotoxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

LeoLight, Vesta Heat, VIEWS, Big Wick (111-46-6)	
LC50 fish 1	75200 mg/l Test organisms (species): Pimephales promelas
EC50 96h - Algae [1]	6500 – 13000 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [2]	9362 mg/l Test organisms (species): other:
NOEC (chronic)	≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'

#### 12.2. Persistence and degradability

LeoLight, Vesta Heat, VIEWS, Big Wick (111-46-6)	
Persistence and degradability	Not established.

#### 12.3. Bioaccumulative potential

LeoLight, Vesta Heat, VIEWS, Big Wick (111-46-6)	
Log Pow	-1.98 at 20 °C
Bioaccumulative potential	Not established.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Fluorinated greenhouse gases : No

Other information : Avoid release to the environment.

### SECTION 13 Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Waste disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.  
Additional information : Do not re-use empty containers.  
Ecology - waste materials : Avoid release to the environment.

### SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

#### 14.1. UN number

Product is not regulated as a Dangerous Good according to DOT/TDG/IMDG/IATA.

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### 14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Not regulated.  
Proper Shipping Name (TDG) : Not regulated.  
Proper Shipping Name (IMDG) : Not regulated.  
Proper Shipping Name (IATA) : Not regulated.

### 14.3. Transport hazard class(es)

**DOT**  
Transport hazard class(es) (DOT) : Not regulated.

**TDG**  
Transport hazard class(es) (TDG) : Not regulated.

**IMDG**  
Transport hazard class(es) (IMDG) : Not regulated.

**IATA**  
Transport hazard class(es) (IATA) : Not regulated.

### 14.4. Packing group

Packing group (DOT) : Not regulated.  
Packing group (TDG) : Not regulated.  
Packing group (IMDG) : Not regulated.  
Packing group (IATA) : Not regulated.

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Transport in bulk

Not applicable

### 14.7. Special precautions for user

**DOT**  
Not regulated.

**TDG**  
Not regulated.

**IMDG**  
Not regulated.

**IATA**  
Not regulated.

## SECTION 15 Regulatory information

### 15.1. Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Diethylene glycol	111-46-6	Present	Active	

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

## SECTION 16 Other information

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Issue date : 9/11/2025

Other information : None.

Full text of H-phrases	
H302	Harmful if swallowed
H373	May cause damage to organs through prolonged or repeated exposure
Abbreviations and acronyms	
ATE	Acute Toxicity Estimate
CAS-No.	Chemical Abstract Service number
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Pow	Partition coefficient n-octanol/water (Log Pow)
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organization for Economic Co-operation and Development

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.