



Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date 11/16/2015

Reviewed on 11/16/2015

1 Identification

- **Product identifier**
- **Trade name:** Vesta Heat, Buffet Warmers, Buffet Chafers, Chafing Fuel, DEG
- **Article number:** C200, C400, C600
- **CAS Number:**
111-46-6
- **EC number:**
203-872-2
- **Index number:**
603-140-00-6
- **Recommended use and restriction on use**
- **Recommended use:**
Maintaining acceptable serving temperatures in buffet dishes containing warm, cooked food.
- **Restrictions on use:** See Sections 8 and 10 for further information.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
LeoLight inc
31 - 10 Planchet Rd
Concord, Ontario
1-800-267-6428
info@leolight.net
- **Information department:** Product Safety Department
- **Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS07

Acute Toxicity (Oral) - Category 4 H302 Harmful if swallowed.

- **Additional information:**

There are no other hazards not otherwise classified that have been identified.

0 % of the mixture consists of component(s) of unknown toxicity.

- **Label elements**

- **GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



GHS07

- **Signal word:** Warning

(Cont'd. on page 2)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date 11/16/2015

Reviewed on 11/16/2015

Trade name: Vesta Heat, Buffet Warmers, Buffet Chafers, Chafing Fuel, DEG

(Cont'd. of page 1)

- **Hazard-determining components of labeling:**

2,2'-oxybisethanol

- **Hazard statements:**

H302 Harmful if swallowed.

- **Precautionary statements:**

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

- **Chemical characterization: Substances**

- **CAS No. Description**

111-46-6 2,2'-oxybisethanol

- **Identification number(s)**

· **EC number:** 203-872-2

· **Index number:** 603-140-00-6

4 First-aid measures

- **Description of first aid measures**

- **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:**

Generally the product does not irritate the skin.

Rinse with warm water.

- **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- **Information for doctor**

- **Most important symptoms and effects, both acute and delayed:**

Headache

Dizziness

Cramp

Nausea

Gastric or intestinal disorders

- **Danger:**

Danger of convulsion.

Condition may deteriorate with alcohol consumption.

(Cont'd. on page 3)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date 11/16/2015

Reviewed on 11/16/2015

Trade name: Vesta Heat, Buffet Warmers, Buffet Chafers, Chafing Fuel, DEG

(Cont'd. of page 2)

- **Indication of any immediate medical attention and special treatment needed:**
Medical supervision for at least 48 hours.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture** No relevant information available.
- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information:** Cool endangered receptacles with water spray.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
Particular danger of slipping on leaked/spilled product.
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
- **Environmental precautions:** Prevent from spreading (e.g. by damming-in or oil barriers).
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
- **Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **Precautions for safe handling:** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidizing agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

(Cont'd. on page 4)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date 11/16/2015

Reviewed on 11/16/2015

Trade name: Vesta Heat, Buffet Warmers, Buffet Chafers, Chafing Fuel, DEG

· **Specific end use(s):** No relevant information available.

(Cont'd. of page 3)

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

111-46-6 2,2'-oxybisethanol

WEEL (USA) | Long-term value: 10 mg/m³

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

· **Breathing equipment:** Not necessary if room is well-ventilated.

· **Protection of hands:**

Not required.

Wear protective gloves to handle contents of damaged or leaking units.

· **Material of gloves** Not required.

· **Eye protection:**



Safety glasses

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General information**

· **Appearance:**

Form: Fluid

Color: Colorless

· **Odor:** Nearly odorless

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition:**

Melting point/Melting range: -8 °C (18 °F)

Boiling point/Boiling range: 245 °C (473 °F)

· **Flash point:** 120 °C (248 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Auto-ignition temperature:** 225 °C (437 °F)

(Cont'd. on page 5)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date 11/16/2015

Reviewed on 11/16/2015

Trade name: Vesta Heat, Buffet Warmers, Buffet Chafers, Chafing Fuel, DEG

(Cont'd. of page 4)

· Decomposition temperature:	Not determined.
· Auto igniting:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	1.6 Vol %
Upper:	10.8 Vol %
· Vapor pressure at 20 °C (68 °F):	0.01 mmHg
· Density at 20 °C (68 °F):	3,66 g/cm ³ (30.543 lbs/gal)
· Relative density:	Not determined.
· Vapor density:	Not determined.
· Evaporation rate:	Not determined.
· Solubility in / Miscibility with:	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Other information	No relevant information available.

10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** Reacts with strong acids.
- **Conditions to avoid:** No relevant information available.
- **Incompatible materials:** No relevant information available.
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

111-46-6 2,2'-oxybisethanol

Oral	LD50	12565 mg/kg (rat)
Dermal	LD50	11890 mg/kg (rabbit)

- **Primary irritant effect:**
- **On the skin:** No irritant effect.

(Cont'd. on page 6)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date 11/16/2015

Reviewed on 11/16/2015

Trade name: Vesta Heat, Buffet Warmers, Buffet Chafers, Chafing Fuel, DEG

(Cont'd. of page 5)

- **On the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Subacute to chronic toxicity:** No relevant information available.
- **Additional toxicological information:**
- **Carcinogenic categories**

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

Substance is not listed.

· **NTP (National Toxicology Program):**

Substance is not listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

Substance is not listed.

· **Probable route(s) of exposure:**

Inhalation.
Eye contact.
Skin contact.
Ingestion.

- **Acute effects (acute toxicity, irritation and corrosivity):** Harmful if swallowed.
- **Repeated dose toxicity:** No relevant information available.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No relevant information available.
- **Persistence and degradability:** No relevant information available.
- **Behavior in environmental systems**
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:** Not known to be hazardous to water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Cont'd. on page 7)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date 11/16/2015

Reviewed on 11/16/2015

Trade name: Vesta Heat, Buffet Warmers, Buffet Chafers, Chafing Fuel, DEG

(Cont'd. of page 6)

- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|--|-----------------|
| · UN-Number | |
| · DOT, ADR, IMDG, IATA | Not regulated. |
| · UN proper shipping name | |
| · DOT, ADR, IMDG, IATA | Not regulated. |
| · Transport hazard class(es) | |
| · DOT, ADR, IMDG, IATA | |
| · Class | Not regulated. |
| · Packing group | |
| · DOT, ADR, IMDG, IATA | Not regulated. |
| · Environmental hazards | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation" | Not regulated. |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 302 (extremely hazardous substances):**

Substance is not listed.

· **Section 304 (emergency release notification):**

Substance is not listed.

· **Sections 311/312 (hazardous chemical threshold planning quantity in pounds):**

Substance is not listed.

· **Section 355 (extremely hazardous substances):**

Substance is not listed.

· **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

· **TSCA (Toxic Substances Control Act)**

Substance is listed.

(Cont'd. on page 8)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date 11/16/2015

Reviewed on 11/16/2015

Trade name: Vesta Heat, Buffet Warmers, Buffet Chafers, Chafing Fuel, DEG

(Cont'd. of page 7)

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

· **Chemicals known to cause developmental toxicity:**

Substance is not listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency):**

Substance is not listed.

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

Substance is not listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

Substance is not listed.

· **Canada**

· **Canadian substance listings**

· **Canadian Domestic Substances List (DSL):**

Substance is listed.

· **Canadian Ingredient Disclosure list (limit 0.1%):**

Substance is not listed.

· **Canadian Ingredient Disclosure list (limit 1%):**

Substance is not listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 11/16/2015 / -

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

Acute Toxicity (Oral) - Category 4: Acute toxicity, Hazard Category 4

(Cont'd. on page 9)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date 11/16/2015

Reviewed on 11/16/2015

Trade name: Vesta Heat, Buffet Warmers, Buffet Chafers, Chafing Fuel, DEG

(Cont'd. of page 8)

· **Sources**

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com