

---

**SAFETY DATA SHEET - SDS**

---

Product : CANARCEL 165 V

Review : 08

December 07th, 2015

---

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

---

Product	CANARCEL 165 V
Internal identification code	--
Relevant recommended uses	Industrial uses.
Company/Distributor	Silver Fern Chemical, Inc 2226 Queen Anne Ave N Seattle, WA 98109 USA
Phone number / Email	866-282-3384 / info@silverferwernchemical.com
Fax	206-282-0105
Emergency Phone number	<b>INFOTRAC:</b> <b>1-800-535-5053 (USA &amp; Canada)</b> <b>Outside USA &amp; Canada 1-352-323-3500</b>

**2. HAZARDS IDENTIFICATION**

---

Classification No classification is assigned according to OSHA HCS 2012.

## Label Elements

- Hazard Pictograms Not applicable.
- Signal Word Not applicable.
- Hazard Statements Not applicable.
- Precautionary Statements Not applicable.

**3. COMPOSITION AND INFORMATION ON INGREDIENTS**

---

Brand or Generic Chemical Name	Glyceryl stearate and PEG 100 stearate
Product Type	Mixture.
# Ingredients or impurities which contribute to the classification	There are no ingredients or impurities which contribute to the classification.
Composition Comments	Glyceryl monostearate (CAS 31566-31-1): 50 - 52%. Polyethylene glycol monostearate (CAS 9004-99-3): 48 - 50%.

**4. FIRST-AID MEASURES**

---

## Procedure in Case of:

- Ingestion Seek prompt medical attention.  
Do not induce vomiting.  
Vomiting should only be induced by medical personnel.  
If vomiting occurs, keep the head lower than chest to avoid aspiration into the lungs.  
Never give anything by mouth to an unconscious or convulsing person.
- Inhalation Seek prompt medical attention.  
Remove victim to fresh air.  
If breathing is difficult, give oxygen.  
If not breathing, give artificial respiration.
- Skin contact Remove contaminated clothing and shoes. Wash affected areas with plenty of running water, preferably under a shower.  
Seek prompt medical attention.
- Eye contact Immediately flush with plenty of running water for at least 15 minutes, keeping eyelids open.  
Remove contact lenses if easy to do.  
Seek prompt medical attention.

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

---

**SAFETY DATA SHEET - SDS**

---

**Product :** CANARCEL 165 V**Review :** 08**December 07th, 2015**

---

Ingestion - No acute toxic effects are known due to the ingestion of this product.

Inhalation - High concentrations of dust may cause coughing and mild temporary irritation. Repeated or prolonged exposure may cause temporary increased mucous flow in the nose and respiratory system airways.

Skin - May cause mildly irritation.

Eyes - May cause tearing, blinking and mild temporary pain.

**Information for doctor**

There is not known any specific antidote.

Direct the treatment in accordance with the symptoms and clinical conditions of the patient.

---

**5. FIRE-FIGHTING MEASURES**

---

**Extinguishing Media**

In case of fire, use:  
Water spray.  
Dry chemical powder.  
Carbon dioxide (CO<sub>2</sub>).  
Foam.

**Specific Hazards**

Product is not flammable.

In case of combustion it may generate carbon monoxide, besides CO<sub>2</sub>.

**Protective measures for fire-fighters**

Water jets should not be used directly on igniting products because it may disperse the material and intensify the fire.

Self-contained breathing apparatus and protective clothing are required.

Cool the intact fire-exposed containers with water spray and remove them.

**NFPA Rating**

- Health 1
- Flammability 1
- Instability 0
- Special

---

**6. ACCIDENTAL RELEASE MEASURES**

---

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

Isolate and signalize area.

Keep heat and/or ignition sources away.

Use personal protection equipment as indicated in Section 8, in order to avoid contact with spilled product.

**Environmental Precautions**

Prevent product from entering into soil and waterways.

Notify the competent authorities if the product has run into drainage systems or watercourse or has contaminated the ground or vegetation.

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

Stop if possible.

Contain and dike spilled product with earth or sand.

Eliminate ignition or heat sources.

Transfer to proper container.

Collect remnants with an appropriate absorbent material.

Wash the contaminated surface with water, which should be collected for disposal.

---

**7. HANDLING AND STORAGE**

---

**Precautions for safe handling**

Use in a well-ventilated area.

Avoid inhalation and contact with eyes, skin or clothing through proper protection.

If occurs accidental contact, exposed area should be washed immediately.

Emergency eyewashes and showers shall be located in accessible locations.

Wash hands and face thoroughly after handling.

Wash contaminated clothing before reuse.

**Conditions for safe storage**

Store in a covered and well-ventilated area, away from sunlight and sources of heat or open flames.

Ensure that the storage location has adequate moisture, pressure and temperature.

Keep containers tightly closed when not in use.

**Incompatibilities**

Avoid contact with:

Strong oxidizing agents.

**Packaging Material**

Recommended:

Stainless steel.

Polyester resin reinforced with fiber glass.

---

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

---

**Control parameters**

---

**SAFETY DATA SHEET - SDS**


---

**Product :** CANARCEL 165 V

**Review :** 08

**December 07th, 2015**


---

- **TLV-TWA (ACGIH)** 10 mg/m<sup>3</sup> (as stearate).  
1,4-Dioxane: 20 ppm; 72 mg/m<sup>3</sup> [Skin].  
Ethylene oxide: 1 ppm; 1.8 mg/m<sup>3</sup>.  
Skin - Danger of cutaneous absorption.
- **PEL-TWA (OSHA)** 1,4-Dioxane: 100 ppm; 360 mg/m<sup>3</sup> [Skin].  
Ethylene oxide: 1 ppm.  
Skin - Danger of cutaneous absorption.
- **TLV-STEL (ACGIH)** Not established.
- **LT(NR15)** Ethylene oxide: 39 ppm; 70 mg/m<sup>3</sup>.
- **Odor Threshold** Not available.
- **IDLH** 1,4-Dioxane: 500 ppm.  
Ethylene oxide: 800 ppm.
- **Biological Exposure Indices (ACGIH)** Not established.

**Engineering Control Measures** In closed environments, this product should be handled keeping proper exhaust (general diluter or local exhauster).

**Individual Protection Measures**

- **Eye Protection** Side shields or wide vision safety goggles.
- **Skin Protection** PVC apron.  
It is recommended to adopt safety boots/shoes.
- **Hand Protection** Gloves made of:  
PVC (Polyvinyl chloride).
- **Breathing equipment** In case of emergency or contact with high concentrations of the product, wear an air supplied mask or self contained breathing apparatus.  
It is recommended to wear face mask with organic vapors cartridge in case of exposure to vapors/aerosols.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**


---

<b>Appearance</b>	Flakes.
<b>Odour and Odour threshold</b>	Not available.
<b>pH</b>	6.59 (sol. 1%).
<b>Melting point/Freezing point</b>	ca. 54 °C.
<b>Initial Boiling Point and Boiling Range</b>	> 100 °C.
<b>Flash point</b>	220 °C.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density (air = 1)</b>	Not available.
<b>Relative density (water=1)</b>	Not applicable.
<b>Apparent density</b>	Not available.
<b>Solubility</b>	Insoluble, but it can be dispersed in water. Slightly soluble in hot water.
<b>Partition Coefficient n-octanol/water</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.

---

**SAFETY DATA SHEET - SDS**

---

Product : CANARCEL 165 V

Review : 08

December 07th, 2015

---

**10. STABILITY AND REACTIVITY**

---

<b>Chemical stability</b>	Stable under normal conditions of use and storage.
<b>Reactivity</b>	No hazardous reactivity is expected.
<b>Possibility of Hazardous Reactions</b>	Not polymerize.
<b>Conditions to avoid</b>	High temperatures, ignition sources and prolonged exposure to the air.
<b>Incompatible materials</b>	Avoid contact with: Strong oxidizing agents.
<b>Hazardous decomposition products</b>	In case of combustion it may generate carbon monoxide, besides CO <sub>2</sub> .
<b>Considerations on the use of the product</b>	Not applicable.

**11. TOXICOLOGICAL INFORMATION**

---

**Acute Toxicity**

- **Oral** Glyceryl monostearate - LD50, mouse (female): > 5000 mg/kg.  
Polyethylene glycol monostearate - LD50, rat: > 20000 mg/kg.
- **Inhalation** Not available.
- **Dermal** Glyceryl monostearate - LD50, rat: > 2000 mg/kg.

**Skin corrosion/irritation**

Glyceryl monostearate - Undiluted glyceryl stearate patch tests produced irritation in six out of 140 persons tested. A four to five percent concentration applied to broken rabbit skin at 2 mL/kg/day, five days a week for 13 weeks caused moderate skin irritation.  
Polyethylene glycol monostearate - Moderate to severe irritant (500 uL/24h, rabbit).

**Serious eye damage/eye irritation**

Glyceryl monostearate - Draize testing in concentrations up to 100% was non-irritating to slightly irritating to rabbits.  
Polyethylene glycol monostearate - Mild irritant (100 uL/24h, rabbit).

**Respiratory or skin sensitization**

Glyceryl monostearate - No sensitizing effects known.

**Germ cell mutagenicity**

Not available.

**Carcinogenicity**

None of this products components are listed as carcinogenic by ACGIH, IARC, NTP, DFG or OSHA.

**Reproductive toxicity**

Not available.

**Specific target organ toxicity - Single exposure**

Not available.

**Specific target organ toxicity - Repeated exposure**

Glyceryl monostearate - Feeding studies of 25% in rat diet over two years showed an increase in liver weights and kidney calcification.

**Aspiration hazard**

Not expected to be an aspiration hazard.

**12. ECOLOGICAL INFORMATION**

---

**Ecotoxicity**

Glyceryl monostearate  
Fish - LC<sub>0</sub>, 96h, Brachydanio rerio:  $\geq$  10000 mg/L [static].  
Invertebrates - EC<sub>50</sub>, 48h, Daphnia magna: > 100 mg/L [static].

**Persistence and Degradability**

Glyceryl monostearate - Based on similar product, it is considered readily biodegradable (90% after 28 days).

**Bioaccumulative Potential**

Not available.

**Mobility in soil**

Not available.

**Other Adverse Effects**

Water hazard class 1: Slightly hazardous to water.

**13. DISPOSAL CONSIDERATIONS**

---

**Recommended methods of disposal**

---

**SAFETY DATA SHEET - SDS**


---

**Product :** CANARCEL 165 V

**Review :** 08

**December 07th, 2015**


---

- **Product** The preferred options for disposal include reuse, recycling, co-processing, finding a use for a by-product, incineration or other thermal destruction process at licensed facilities. All procedures must follow specific operation standards in order to reduce health, safety and environmental risks. Perform co-processing, incineration or other thermal destruction process at facilities capable of minimizing or reducing air pollution emissions. The disposal must comply with federal, state, and local laws and regulations in accordance with the environmental agencies.
- **Product Remains** Same method as indicated for product.
- **Packaging** Do not cut or pierce the packaging, nor do hot work near them. Do not remove labels until the product has been fully removed and the packaging cleaned. The preferred options for disposal include reuse, recycling or reclamation at licensed facilities. All procedures must follow specific operation standards in order to reduce health, safety and environmental risks. The disposal must comply with local legislation and in accordance with standards from local environmental agencies.

**14. TRANSPORT INFORMATION**


---

<b>Land Transport ANTT</b>	Product not classified as hazardous in accordance with Resolution 420/2004 - Transport Ministry.
• <b>UN number</b>	N/A
• <b>Proper Shipping Name</b>	Not classified.
• <b>Hazard Class</b>	Not classified.
• <b>Hazard Number</b>	Not classified.
• <b>Packaging Group</b>	Not classified.
<b>Maritime Transport IMDG</b>	Product not classified as hazardous in accordance with IMDG Code - 2012 Edition - IMO (International Maritime Organization).
• <b>UN number</b>	N/A
• <b>Proper Shipping Name</b>	Not classified.
• <b>IMDG Class</b>	Not classified.
• <b>Packaging Group</b>	Not classified.
• <b>EmS</b>	Not classified.
<b>Air Transport ICAO-TI and IATA-DGR</b>	Product not classified as hazardous in accordance with Dangerous Goods Regulations - 56th Edition - IATA (International Air Transport Association).
• <b>UN number</b>	N/A
• <b>Proper Shipping Name</b>	Not classified.
• <b>ICAO/IATA Class</b>	Not classified.
• <b>Label</b>	Not classified.
• <b>Packaging Group</b>	Not classified.
<b>Land Transportation ADR/RID (cross-border)</b>	Product not classified as hazardous in accordance with Dangerous Goods by Road - Applicable from 1st January 2011 - Unece (United Nations Economic Commission for Europe).
• <b>UN number</b>	N/A
• <b>Proper Shipping Name</b>	Not classified.
• <b>ADR/RID class</b>	Not classified.
• <b>Packaging Group</b>	Not classified.
• <b>Danger code (Kemler)</b>	Not classified.
• <b>Restriction Code</b>	Not classified.
<b>Land Transportation U.S DOT</b>	Product not classified as hazardous in accordance with U.S. DOT (United States Department of Transportation) - 49 CFR 172.101.
<b>Packaging Type</b>	Bulk and Non-bulk

## SAFETY DATA SHEET - SDS

Product : CANARCEL 165 V

Review : 08

December 07th, 2015

Proper Shipping Name Not classified.  
Hazard Class or Division Not classified.  
ID Number Not classified.  
Packaging Group Not classified.  
Remarks Not classified.

## 15. REGULATORY INFORMATION

**Applicable standards** Resolution 420 / 2004 – Transport Ministry.  
Dangerous Goods by Road (ADR) – Available from January 1st, 2011 – Unece (United Nations Economic Commission for Europe).  
IMDG Code - 2012 Edition - IMO (International Maritime Organization).  
Dangerous Goods Regulations - 56th Edition - IATA (International Air Transport Association).  
U.S.A Department of Transportation – DOT – 49 CFR 172.101.

**OSHA Hazard Communication Standard** This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.



**SARA Title III - Sections 311 / 312 (40 CFR 370 Subparts B and C)** Immediate (Acute) Health Hazard: No.  
Delayed (Chronic) Health Hazard: No.  
Fire Hazard: No.  
Sudden Release of Pressure Hazard: No.  
Reactive Hazard: No.

**SARA Title III - Section 313 (40 CFR 372.65)** This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

**SARA Title III - Section 302 (40 CFR 355 Appendix A)** Ethylene oxide (CAS 75-21-8): max. 1 ppm. TPQ: 1000 lbs.

**CERCLA (40 CFR 302.4) / SARA 304** 1,4-Dioxane (CAS 123-91-1): max. 5 ppm. RQ: 100 lbs.  
Ethylene oxide (CAS 75-21-8): max. 1 ppm. RQ: 10 lbs.  
Reportable Quantity (RQ) of this product is 10000000 pounds based upon Ethylene oxide which yielded the lowest resultant RQ according to the following formula: CERCLA ingredient RQ/ % of that ingredient in the product.

**New Jersey Hazardous Substance List** 1,4-Dioxane: Substance# 0789 (Special Health Hazard Code: CA – Carcinogen; F3 – Flammable 3rd degree).  
Ethylene oxide: Substance# 0882 (Special Health Hazard Code: CA – Carcinogen; MU – Mutagen; TE – Teratogen; F4 – Flammable 4th degree; R3 – Reactive 3rd degree).

**California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act)**  WARNING! This product contains a chemical known to the State of California to cause cancer.  
- 1,4-Dioxane.  
- Ethylene oxide. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).  
 WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.  
- Ethylene oxide. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Pennsylvania Hazardous Substance List** 1,4-Dioxane (CAS 123-91-1) and Ethylene oxide (CAS 75-21-8): Listed also as an environmental hazard and as a special hazardous substance.

**Inventory Status** United States & Puerto Rico – Toxic Substances Control Act (TSCA) Inventory: Yes  
Canada – Domestic Substances List (DSL): Yes  
Canada – Non-Domestic Substances List (NDSL): No  
Europe – European Inventory of Existing Commercial Chemical Substances (EINECS): No  
Europe – European List of Notified Chemical Substances (ELINCS): No  
Australia – Australian Inventory of Chemical Substances (AICS): Yes  
Philippines – Philippine Inventory of Chemicals and Chemical Substances (PICCS): Yes  
Japan – Inventory of Existing and New Chemical Substances (ENCS): Yes  
Korea – Existing Chemicals List (ECL): Yes  
China – Inventory of Existing Chemical Substances in China (IECSC): Yes  
New Zealand – New Zealand Inventory: Yes  
\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

## 16. OTHER INFORMATION

Remarks Not applicable.

Sources eChemPortal - The Global Portal to Information on Chemical Substances.  
HSDB - Hazardous Substances Data Bank.  
LOLI - ChemADVISOR's Regulatory Database.  
2015 Guide to Occupational Exposure Values – ACGIH.  
2015 TLVs and BEIs – Based on the Documentation of the Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices – ACGIH.

---

**SAFETY DATA SHEET - SDS**

---

Product : CANARCEL 165 V

Review : 08

December 07th, 2015

---

**Abbreviations and acronyms**

ACGIH: American Conference of Governmental Industrial Hygienists (USA).  
ADR: European agreement concerning the international carriage of dangerous goods by road.  
CAS: Chemical Abstracts Service (American Chemical Society - EUA).  
EC50: Average concentration for 50% of maximum response.  
LC: Lethal Concentration - substance concentration in the environment that leads to death after a certain period of exposure.  
LC50: Lethal concentration for 50% of the test animals.  
BOD: Biochemical Oxygen Demand.  
LD50: Lethal Dose for 50% of the test animals.  
LDLo: Lethal Dose Low - minimal amount of a chemical lethal to animals in testing.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.  
IARC: International Agency for Research on Cancer.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods by Regulations by the IATA  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the ICAO.  
IMDG: International Maritime Code for Dangerous Goods.  
IDLH - Immediately Dangerous To Life or Health Concentrations.  
Kow: Octanol/water partition coefficient.  
LT (NR 15): Exposure limits of the standard number 15 - Unhealthy Operations and Activities from the Ministry of Labour and Employment of Brazil.  
LOAEL: Lowest Adverse Effect Level  
LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database  
NLP: No Longer Polymers.  
NIOSH: National Institute for Occupational Safety and Health.  
NOAEL: No Observed Adverse Effect Level  
NTP: National Toxicology Program.  
OSHA: Occupational Safety and Health Administration (EUA).  
PEL-TWA: Exposure Limit Allowed – time-weighted average.  
RID: Regulations concerning the international transport of dangerous goods by rail.  
TLV-STEL: Tolerance Limit - short period of time (15 minutes, maximum).  
TLV-TWA: Tolerance Limit – time weighted average.  
WGK: Wassergefährdungsklasse (Germany) - Water Hazard Class.

**DISCLAIMER OF RESPONSIBILITY:**

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

This Safety Data Sheet was authored according to our current knowledge and experience, however cannot imply guarantee of any nature. Considering the variety of factors that can affect their process or application, the information on this sheet does not exempt the processors from the responsibility of executing their own tests and experiments.

ELECTRONICALLY APPROVED