





Division of Candle Corporation of America  
 EG-Sicherheitsdatenblatt gem. 80 91/155/EWG  
 MATERIAL SAFETY DATA SHEET

MSDS # 02 ST03009, ST05006, ST05008, ST05009, ST05010, ST05016

REVISED DATE: 02-17-2005

PRODUCT NAMES: STERNO BRAND® WICK FOOD WARMING FUEL

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

ACUTE HEALTH FIRE REACTIVITY HMIS HAZARD RATING: LEAST- 0, SLIGHT- 1, MODERATE-2, HIGH - 3, EXTREME - 4  
 2 1 0

PRODUCT NAMES: STERNO PLUG WICK, STERNO TWIST CAP WICK, STERNO HOT SPOT WICK, STERNO HOT BOX WICK  
 UPC/SKU #: US Domestic: ST03009, ST03009BK, ST03009J, ST03009S, ST05006, ST05006J, ST05008, ST05009, ST05010, ST05010S, ST05016, ST05016BD,  
 ST05016FSA, ST05016R, ST05016S  
 Discontinued: ST05012, ST05014, ST05018

CAS NUMBER: 111-46-6

GENERAL USE: A combustible liquid canned heat. The fuel, Diethylene Glycol, is delivered via a wick. The product is ignited and burned to provide heat for food warming applications.

The STERNO GROUP  
 Candle Corporation of America  
 999 E. Touhy Suite 500  
 Des Plaines, IL 60018

#### U.S., CANADA AND MEXICO:

For consumer information: Call toll free: 1 (888) - 4-LITES-1.

For emergencies involving spill, leak, fire, exposure or accident, call CHEMTREC: 1 (800) 424-9300, day or night.

For medical emergencies only, call toll free: 1 (888) 313-8954.

#### INTERNATIONAL:

For emergencies involving spill, leak, fire, exposure or accident, CALL 1-(703) 527-3887 (located in the US).

For medical emergencies call your local Poison Control Center or the US Medical Emergency Center at (651) 632-8954.

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

OSHA REGULATED COMPONENTS (present at a concentration > or = 1%):

Component	CAS #	%	PEL	TLV
Diethylene Glycol	111-46-6	100.0	NE	NE

The following components, present at a concentration > or = 0.1%, are listed as carcinogens or potential carcinogens by either the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or OSHA:

Component	CAS #	%	PEL	TLV
None - not applicable				

DIETHYLENE GLYCOL - EINECS number: 203-872-2

### SECTION 3 - HAZARDS IDENTIFICATION

Diethylene Glycol is a clear combustible liquid.

EMERGENCY OVERVIEW: Diethylene Glycol is toxic if ingested. Oral LD50 (rats) 20.76 g/kg.

PRECAUTIONARY LABELING: Harmful if swallowed. Keep away from children. Contains diethylene glycol. In case material is swallowed give milk or water. Call a physician.

EYE CONTACT: Eye irritant upon direct contact.

SKIN CONTACT: May cause skin irritation upon prolonged contact.

INGESTION: Harmful or fatal if swallowed. Transient stimulation of the central nervous system, followed by depression, vomiting, drowsiness, coma, respiratory failure, renal damage, possibly leading to death.

INHALATION: Burn product in a well ventilated area. Avoid breathing unburned vapors.

### SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Flush eye with large amounts of warm water for 15 minutes. If irritation persists, contact poison center or doctor.

SKIN CONTACT: Remove and isolate contaminated clothing. Flush exposed area with warm water for 15 minutes. If irritation persists, contact poison center or doctor.

INGESTION: Drink sips of warm water or milk. Immediately contact doctor and poison center.

INHALATION: Seek fresh air and take slow deep breaths. Drink some sips of water. If coughing persists, contact poison center or doctor.

### SECTION 5 - FIRE FIGHTING MEASURES

Flash Point (Method): 255 degrees F (124 degrees C)

Extinguishing Media: Water, CO2, Foam, Dry Chemical

**MATERIAL SAFETY DATA SHEET**

This form may be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. To be valid all information required by 1910.1200(g) of the Standard must appear on this form. Consult the Standard for specific requirements. Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.	Quick Name Identifier/Common Name: Diethylene Glycol Chafing Dish Fuel. 4Hr Safe Heat, 6Hr Safe Heat, Heat It 200, Heat It 518, Safe Heat Jr., High 5, 6Hr Pro Heat, 6Hr Safe Heat w/Pad, Power Wick UPC/SKU: H0200-R, H0001-R, H0007, H0008, H1200, H0518, H0048, H0500, H0001, H0006
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**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Manufacturer's Name: Candle Lamp Company 1799 Rustin Avenue Riverside, CA 92507	24 Hour Emergency Telephone Number: 1-800-255-3924 or 1-813-977-3668 (Collect Calls Accepted) Information Telephone Number: 1-951-682-9600
General or Generic Name: Diethylene Glycol (DEG)	Date Prepared: 02/02/06

**SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredients	CAS No.	% By Weight
Diethylene Glycol	111-46-6	100

**SECTION 3 - HAZARDS IDENTIFICATION**

<i>Potential Health Effects</i>	
Eye/Ocular	None or mildly irritating to the eyes.
Skin/Dermal	May cause skin irritation upon prolonged contact.
Inhalation	May produce CNS depression including headache, nausea, euphoria, loss of equilibrium, drowsiness, visual disturbances, fatigue, unconsciousness, and respiratory arrest.
Swallowing/Ingestion	May be harmful or fatal if swallowed. May produce symptoms similar to inhalation, followed by rapid breathing, increased heart rate, possible toxicity to the kidneys, decreased urine volume, and severe metabolic acidosis.
Symptoms of Exposure	Symptoms may include nausea, vomiting and diarrhea.
Target Organ Effects	Repeated overexposure may cause liver and kidney damage.
Cancer Information	Not expected to pose a carcinogenic risk to humans.
Other Health Effects	Pre-existing liver, kidney, CNS, skin, eyes, and respiratory disorders are aggravated by exposure.
Primary Routes of Exposure	Inhalation, ingestion, skin absorption, skin contact, eye contact.

**SECTION 4 - FIRST AID MEASURES**

Eyes	Flush eyes gently with water while holding eyelids open for 15 minutes. If symptoms persist or there is any visual difficulty, seek medical attention.
Skin	Remove contaminated clothing. Wash exposed area with soap and water. If irritation continues, seek medical attention. Thoroughly wash contaminated clothes before re-use.
Swallowing	Never give anything by mouth to an unconscious person. If swallowed, DO NOT induce vomiting. Give large quantities of water or milk. If vomiting occurs spontaneously, keep airway clear and give more water. GET MEDICAL ATTENTION IMMEDIATELY.
Inhalation	Move individual away from exposure and into fresh air. If breathing has stopped, perform artificial respiration. GET MEDICAL ATTENTION IMMEDIATELY.

Attn: Liz  
From: Adam

3 pages

<b>SECTION 5 -- FIRE FIGHTING MEASURES</b>	
Flammability Classification:	Class III B combustible liquid.
Flash Point	280°F (138°C) Pensky-Martins Closed Cup
Incompatibility (materials to avoid)	Oxidizers, acids, alkalis.
Explosive Limits	Lower Limit: 1.6%(V) Upper Limit 10.8%(V)
Auto-ignition Temperature	444°F (230°C)
Hazardous Products of Combustion	Burning or excessive heating may produce smoke, carbon monoxide, carbon dioxide, and possibly other harmful gases/vapors.
Fire and Explosion Hazard	Airborne mists are moderate fire and explosion hazards.
Extinguishing Media	Alcohol foam or water spray, carbon dioxide, or dry chemicals.
Fire Fighting Instructions	Wear self-contained breathing apparatus with full-face piece operated in positive pressure demand mode with appropriate turn out gear. Individuals should perform only those fire-fighting procedures for which they have been trained.
NFPA Rating: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme	Health - 1, Flammability - 1, Reactivity - 0

<b>SECTION 6 -- ACCIDENTAL RELEASE MEASURES</b>	
Spill	Eliminate ignition source, and absorb liquid spill on vermiculite, floor absorbent or other similar absorbent material. Remove to containers for disposal per local, state, and federal ordinances.
Large Spill	Immediately eliminate all ignition sources (open flames, smoking materials, pilot lights, electrical sparks). Remove persons not in appropriate protective gear from area. Stop spill at source. Prevent material from entering drains, sewers and waterways. Prevent spill from spreading. Dike and pump into properly labeled containers for reclamation or removal to containers for disposal per local, state, and federal ordinances.

<b>SECTION 7 -- HANDLING AND STORAGE</b>	
Handling	Keep away from heat, flame, and sparks. Avoid breathing vapors. Avoid contact with skin, wash thoroughly after handling. Keep away from children. Place can in chafe before lighting, and keep away from combustibles (e.g., paper plates, napkins, paper tablecloths, etc.). Use in a well-ventilated area. <b>DO NOT TAKE INTERNALLY.</b>
Storage	Containers should be stored away from flame, heat or other ignition sources. Store in a cool dry place (40-120°F, 4-49°C). Provide adequate ventilation. Keep container tightly closed when not in use and properly labeled.

<b>SECTION 8 -- EXPOSURE CONTROLS / PERSONAL PROTECTION</b>	
Precautionary Labeling	Harmful if swallowed, keep away from children
Eye Protection	Avoid eye contact with material, and wear chemical-resistant goggles.
Skin Protection	Avoid skin contact with material, and wear chemical-resistant gloves.
Respiratory Protection	NIOSH approved respirator for Organic vapors.
Exposure Guidelines	AIHA WEEL 50 ppm (vapor and aerosol); 10 mg/m3 (aerosol only)

<b>SECTION 9 -- PHYSICAL DATA AND CHEMICAL PROPERTIES</b>	
Appearance and Odor	Clear, colorless, slightly viscous, odorless
Solubility in Water	Miscible
pH	N/A
Melting Point	17.6 °F (-8 °C)
Boiling Point	473 °F (245 °C) @ 760 mmHg
Evaporation Rate	No Data Available
Vapor Pressure	<0.01 mmHg (@ 68 °F (20 °C))
Specific Gravity: Vapor Density	9.3 lbs./gal : 3.66 (air = 1)
Viscosity	38 mPa.s

**SECTION 10 - STABILITY AND REACTIVITY**

Hazardous Polymerization	Product does not undergo polymerization
Hazardous Decomposition	May form: carbon dioxide and/or carbon monoxide
Chemical Stability	Stable
Incompatibility: Conditions to avoid	Oxidizers, acids, and alkalis: Excessive heat, open flames or sparks.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

DEG is essentially non-toxic by dermal and inhalation, however it has been lethal following ingestion. LD50 (oral) Rat = 12,565 mg/kg. LD50 (skin) Rabbit = 11,890 mg/kg.

**SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity:** Not significantly toxic to fish and aquatic invertebrates, although amphibians may be more sensitive.

**Environmental Fate:** DEG biodegrades rapidly in water and soil, and will not persist in environment.

**Bioaccumulation:** Because of its high solubility and biodegradation, it is unlikely that bioaccumulation will occur in aquatic or terrestrial systems.

**SECTION 13 - DISPOSAL INFORMATION**

Disposal:	Dispose of all waste and contaminated equipment in accordance with all applicable Federal, State, and Local regulations. Note: It is the purchasers' responsibility to dispose of properly.
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**SECTION 14 - TRANSPORTATION**

Domestic:	Not DOT regulated.
International:	Not DOT regulated.

**SECTION 15 - REGULATORY INFORMATION**

TSCA:	The intentional ingredients of this product are listed.
SARA 302 Components:	None
SARA 313 Components:	None
<b>State and Local Regulations</b>	
California Proposition 65:	None

**SECTION 16 - OTHER INFORMATION**

The above data is based on tests and experience, which Candle Lamp Company believes reliable and is supplied for informational purposes only. The Candle Lamp Company's products are intended for sale to industrial and commercial customers. Candle Lamp Company requests that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Some information presented and conclusions drawn herein may be from sources other than direct test data on the substance itself. Candle Lamp Company disclaims any liability for damage or injury which results from the use of the above data, and nothing contained therein shall constitute a guarantee, warranty (including warranty or merchantability) representation (including freedom from patent liability) by the Candle Lamp Company with respect to data, the product described, or their use for any specific purpose, even if that purpose is known to Candle Lamp Company.