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Division of Candle Corporation of America

EG-Sicherheitsdatenblatt gemäß 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 2 FIRE 1 REACTIVITY 0 HMIS HAZARD RATING: LEAST- 0, SLIGHT- 1, MODERATE-2, HIGH – 3, EXTREME - 4

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, ST05016ED, 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
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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

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SPECIAL FIRE FIGHTING PROCEDURES: No known toxic combustion products or special fire fighting hazards. Self-contained breathing apparatus and protective clothing should be worn when fighting chemical fires.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SMALL SPILLS: Remove all sources of ignition. Provide adequate ventilation. Absorb on vermiculite, paper or other absorbent. Flush area with water.

SECTION 7 - HANDLING AND STORAGE

STORAGE: Store in a cool dry place (40 - 120 degrees F or 4 - 49 degrees C). Provide adequate ventilation in area of use. Store away from sources of heat or open flame. Keep container closed when not in use.

HANDLING: Avoid contact with skin and eyes. Do not ingest. Place can in fuel holder or under chafers before lighting. Burn can in a level upright position. Keep away from combustibles (e.g. paper plates and napkins). Keep away from children.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONTROLS: Avoid contact with skin and eyes. Precautionary labeling: Harmful if swallowed. Keep away from children. Contains diethylene glycol. In case material is swallowed give milk or water. Call a physician.

PROTECTIVE CLOTHING: Under normal conditions of use, no special protection for skin or eyes is required.

European Exposure Limits

CAS	Data	List Name	Chemical Name
111-46-6	2.5 ppm TWA; 11 mg/m ³ TWA	Denmark - Occupational Exposure Limits - 8-Hour	Diethylenglykol
111-46-6	10 ppm MAK; 44 mg/m ³ MAK	Germany (DFG) - Occupational Exposure Limits - 8-Hour (MAK Values)	Diethylene glycol
111-46-6	50 ppm Peak; 220 mg/m ³ Peak	Germany (DFG) - Occupational Exposure Limits - Ceilings (Peak Limitations)	Diethylene glycol
111-46-6	1 Key: 0079	Germany - Water Classification (VwVwS) - Water Hazard Classes	Diethylenglykol
111-46-6	2.5 ppm TWA; 11 mg/m ³ TWA	Iceland - Occupational Exposure Limits - 8-Hour	Diethylenglykol
111-46-6	23 ppm OEL; 100 mg/m ³ OEL	Ireland - Occupational Exposure Limits - 8-Hour	Diethylene glycol
111-46-6	10 mg/m ³ NDS (aerazol)	Poland - Occupational Exposure Limits - 8-Hour	2,2'-Oksydietanol (Glikol dwuetylenowy)
111-46-6	Can be absorbed percutaneously	Sweden - Occupational Designations	Diethylene glycol
111-46-6	20 ppm STV; 90 mg/m ³ STV	Sweden - Occupational Exposure Limits - 15-Minute (STVs)	Diethylene glycol
111-46-6	10 ppm LLV; 45 mg/m ³ LLV	Sweden - Occupational Exposure Limits - 8-Hour (LLVs)	Diethylene glycol
111-46-6	50 ppm STEL; 220 mg/m ³ STEL	Switzerland - Occupational Exposure Limits - 15-Minute	Diethylenglykol
111-46-6	10 ppm MAK; 44 mg/m ³ MAK	Switzerland - Occupational Exposure Limits - 8-Hour	Diethylenglykol
111-46-6	23 ppm TWA; 101 mg/m ³ TWA	United Kingdom - Occupational Exposure Limits - 8-Hour	2,2'-Oxydiethanol

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear viscous liquid, and mild odor VAPOR PRESSURE: (MM HG) 0.02@68°F
DENSITY: 1.1 g/cm³ (Water =1) VAPOR DENSITY: 3.5 (AIR =1)
SOLUBILITY IN WATER: Miscible / Complete BOILING POINT: 473 degrees F
pH: N/A MELT POINT: 18 degrees F

SECTION 10 - STABILITY AND REACTIVITY

GENERAL: This product is stable. Hazardous polymerization will not occur.
INCOMPATIBLE MATERIALS: Avoid elevated temperatures. Store away from source of heat/flame.
HAZARDOUS DECOMPOSITION: Not known.

SECTION 11 - TOXICOLOGICAL INFORMATION

SUMMARY: Diethylene glycol is essentially nontoxic by the inhalation or dermal exposure routes. It has been lethal following ingestion. However, because of some reported human fatalities and evidence for carcinogenicity in experimental animals, diethylene glycol is Class 3 (may cause irreversible effects which can be life threatening) for general toxicity. Because of the conflicting reports of reproductive effects in experimental animals, diethylene glycol is Class B (mixed reproductive effects in animals but no human data) for reproductive effects. The actual human reproductive hazard is unknown.

Component • 2,2'-oxybis-ethanol
LD50 (ORAL): Rat 12.6G/KG LC50 (INHL): Mouse 130 MG/M3/2H

SKIN EFFECTS: This substance is a mild skin irritant.

EYE EFFECTS: This product is expected to be a mild eye irritant.

ACUTE ORAL EFFECTS: When ingested, may cause nausea, vertigo, bronchial and general intestinal irritation, CNS effects and severe metabolic acidosis. Toxicity is related to the degree of acidosis produced and the time interval between exposure and specific treatment.

ACUTE INHALATION EFFECTS: May produce symptoms of central nervous system depression including headache, dizziness, nausea, loss of sense of balance, drowsiness, visual disturbances, unconsciousness and death.

SUBCHRONIC EFFECTS: Diethylene glycol given to rats in the diet for two years caused bladder stones, tumors, and kidney and liver damage. These effects were probably due to contaminating diethylene glycol, and the bladder stones were formed from oxalate crystals.

CHRONIC EFFECTS / CARCINOGENICITY: No evidence for carcinogenicity was found with a chronic skin-painting study in mice. The absence of a direct chemical carcinogenic effect accords with the results in vitro genotoxicity studies which shows that it does not produce mutagenic or clastogenic effects.

REPRODUCTIVE / DEVELOPMENTAL EFFECTS: There are conflicting results in the literature about the reproductive effects of diethylene glycol in animals. It did not affect reproduction when given orally to rats, but another report stated that it may have affected either male or female fertility or both, because no pregnancies occurred when both sexes were exposed orally. When diethylene glycol was given at a dose of 5% in the diet to rats during pregnancy, there was a slight reduction in

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weights of the newborns, but no teratogenicity. Diethylene glycol was not fetotoxic or teratogenic, nor was it maternally toxic, when given orally to pregnant rabbits as doses up to 1000 mg/kg from day 7 to 19 after insemination. Diethylene glycol had no effect on fertility at a level of 2.5% in the drinking water of mice. ever, another preliminary study in mice concluded that it may be a suspect reproductive hazard. Diethylene glycol given to rats resulted in specific developmental abnormalities of the musculoskeletal system and fetotoxicity.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY: This material is highly soluble in water. Laboratory toxicity tests indicate that is not significantly toxic to fish and aquatic invertebrates, although amphibians may be more sensitive. Wildlife species may be more susceptible since mammals and birds do not readily metabolize this material. The odor and flavor of this material may attract some wildlife and cause them to consume spilled material.

ENVIRONMENTAL FATE: This material will biodegrade relatively rapidly in both soil and water, and will not persist in the environment. Due care should be taken to avoid accidental releases to aquatic or terrestrial systems. Diethylene glycol (DEG) is highly soluble in water.

BIOACCUMULATION: Because of this material's high solubility and rapid biodegradability, it is unlikely that bioaccumulation will occur in aquatic or terrestrial systems. Models estimate that this material will preferentially partition to water versus air or soil.

SECTION 13 - DISPOSAL CONSIDERATIONS

NOTE: The purchaser is responsible for proper waste disposal of empty, partial, or full cans. Any disposal practice must be in compliance with local, state, and federal laws and regulations (contact local or state environmental agency for specific rules). Do not dump into sewers, any body of water, or onto the ground.

SECTION 14 - TRANSPORTATION

This product is not regulated as a DOT hazardous material.

SECTION 15 - REGULATORY INFORMATION

OSHA: This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

RCRA (40 CFR 261, Subpart D): None of the OSHA regulated components in this product are listed as hazardous wastes under 40 CFR 261 (Subpart D).

CLEAN WATER ACT: None of the OSHA regulated components in this product are Section 311 listed chemicals.

SARA: Sections 301-304 (Threshold planning quantity - TPQ) 40 CFR 355: No TPQ for any OSHA regulated component. Section 313 (Toxic chemical release reporting) 40 CFR 372: The following chemicals must be reported under SARA 313: Not applicable to any OSHA regulated component.

CERCLA: Section 102 (Reportable Quantity - RQ) 40 CFR 302: No RQ for any OSHA regulated component.

PRECAUTIONARY LABELING: Symbol Xn; Harmful if swallowed; Keep out of reach of children ; If swallowed seek medical advice immediately and show this container label.

German Water Classification(WGK): 1

SECTION 16 - OTHER INFORMATION

The information on this sheet is limited to the material identified and is believed by Candle Corporation of America to be correct based on its knowledge and information as of the date noted. Candle Corporation of America makes no representation, guarantee or warranty, expressed or implied, as to the accuracy, reliability or completeness of the information and assumes no responsibility for injury, damage or loss resulting from the use of the material.

MSDS REVISION INDICATORS: Revised Sections 1, 16, Header.

Revision date: February 17, 2005, Supersedes: March 29, 2004

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