



Division of Candle Corporation of America

EG-Sicherheitsdatenblatt gemäß 91/155/EWG
MATERIAL SAFETY DATA SHEET

RFS # AC918

MSDS #17 HW03002, HW03004, HW03004S, HW03006, 993-6SING
REVISED DATE: 06-14-2007

PRODUCT NAME: Handy Wick® Brand Chafing Fuel

SECTION 1 - IDENTIFICATION AND EMERGENCY INFORMATION

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS): ACUTE HEALTH FIRE REACTIVITY
BASIS: Recommended by Manufacturer 2 1 0

PRODUCT NAME: Handy Wick® Brand Chafing Fuel / 993 Series

UPC/SKU #: HW03002, HW03004, HW03004S, HW03006, HW03006S, 993-6SING, 993-4ED, 993-6AB, 993-6BK, 993-6ED, 993-HAM6, 993-POC, 993-6TM

Discontinued: 993-2HR, 993-4HR, 993-6HR, 993-4E, 993-6E, 993-6GOR as of March 29, 2004

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 LLC
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

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 chafe 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 (acrolein)	Poland - Occupational Exposure Limits - 8-Hour	2,2'-Oksydiethanol (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 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. However, 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 it 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 The Serno Group LLC to be correct based on its knowledge and information as of the date noted. The Serno Group LLC 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, and Format.

Revision date: June 14, 2007, Supersedes: April 6, 2005

FOR OTHER PRODUCT INFORMATION CONTACT:

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MATERIAL SAFETY DATA SHEET

MSDS #: FH/C/2007/BRRM-732PQG
Supersedes: FH/C/2006/BRRM-6SVR4T

Issue Date: May, 2007
Issue Date: August, 2006

Identity: Liquid Hand Dishwashing Detergents

Finished Product

Brands: P&G PROFESSIONAL DAWN

P&G Telephone Number: 1-800-332-7787 or call Local Poison Control Center or your physician.

Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)

Ingestions: Ingestion may cause transient gastrointestinal irritation.

Eye Contact: May cause mild, transient irritation.

Skin Contact: Transient irritation with prolonged exposure to concentrated material.

Inhalation: N/A

Signs and Symptoms of Exposure:

Ingestion: May result in nausea, vomiting, and/or diarrhea.

Eye Contact: May cause stinging, tearing, itching, swelling, and/or redness.

Skin Contact: Prolonged contact with concentrated material may be drying or transiently irritating to skin.

Inhalation: N/A

Medical Conditions Generally Known to be Aggravated by Exposure: None

Potential Environmental Effects: (See Section 12 for more information)

Ingredients: Water (CAS# 7732-18-5), sodium alkyl sulfate (CAS# 68585-47-7), sodium alkyl ethoxylate sulfate (CAS# 68585-34-2), alkyl dimethyl amine oxide (CAS# 70592-80-2), undeceth-9 (CAS# 34398-01-1), SD alcohol (CAS# 64-17-5)

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. and/or WHMIS under the HPA:

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Composition</u> <u>Range</u>	<u>LD50/LC50</u>
Ethyl alcohol	Ethanol	64-17-5	1-5%	7.06 g/kg (oral, rat)

First Aid Procedures:
Ingestion: Drink 1 or 2 glasses of water.
Eye Contact: Flush thoroughly with water for 15 minutes.
Skin Contact: If prolonged contact occurs, rinse thoroughly with water. If spilled on clothing, change clothes. If symptoms persist or recur, seek medical attention.
Inhalation: N/A
Note to Physician: (if applicable)
Other: Product packages have the following cautionary information on the front panel: KEEP OUT OF REACH OF CHILDREN. CAUTION: MAY CAUSE EYE IRRITATION. SEE SIDE/BACK PANEL. Product packages have the following cautionary information on the side/back panel: EYE IRRITANT: Avoid eye contact. Eye contact may cause mild to moderate transient eye irritation. If eye irritation occurs, flush with water for 15 minutes. If irritation persists seek medical attention. KEEP OUT OF REACH OF CHILDREN.

Flash Point (Method Used): 115-135°F (46.1-57.2°C) Pensky-Martens (Closed cup). This is an aqueous solution (>50% water) that contains less than 24% by volume of alcohol and does not sustain combustion.
Flammable Properties:
Upper Flammable Limit:
Lower Flammable Limit:
Explosive Limits: UEL: N/A LEL: N/A
Auto-ignition Temperature: N/A
Hazardous Combustion Products: N/A
Explosion Data (Sensitivity to Mechanical Impact): N/A
Explosion Data (Sensitivity to Static Discharge): N/A
Extinguishing Media:
Suitable: CO2, water or dry chemical.
Unsuitable: N/K
Protection of Firefighters:
Specific Hazards Arising from the Material: None
Protective Equipment and Precautions for Firefighters: No unusual precautions necessary.

Personal Precautions: None
Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE /PROVINCIAL AND LOCAL REGULATIONS. Solutions of the detergents may be allowed to be flushed down sewer -- First check with your local water treatment plant. Recycling is recommended for undiluted scrap product. Do not landfill.
Methods for Containment: Sorbents may be used. Read "Waste Disposal Method" below for further information.
Methods for Cleanup: Prevent spills from reaching a waterway.
Other Information: (if applicable)

Precautions To Be Taken in Handling: No unusual precautions necessary.
Precautions To Be Taken in Storage: No unusual precautions necessary.

Exposure Guidelines: Ethanol (CAS# 64-17-5) ACGIH-TLV 1000 ppm
OSHA Z-1 PEL 1000 ppm

Engineering Controls:

Personal Protective Equipment (PPE):

Eye/Face Protection: None required with normal consumer use.

Industrial Setting: For splash protection, use chemical goggles. Eye Wash fountain is desirable.

Skin Protection: None required with normal use.

Industrial Setting: Protective gloves (rubber, neoprene) should be used for prolonged direct contact.

Respiratory Protection: None required with normal use.

Appearance (color, physical form, shape):
Blue or Yellow perfumed liquids.

Flash Point (Method Used): 115-135°F (46.1-57.2°C) Pensky-Martens (Closed cup). This is an aqueous solution (>50% water) that contains less than 24% by volume of alcohol and does not sustain combustion.

Odor: Perfumed

Reserve Alkalinity: N/A

Odor Threshold: N/A

Solubility in Water: Complete

Physical State: Liquid

Decomposition Temperature: N/K

Vapor Pressure (mm Hg): N/A

Evaporation Rate (nBuOAc=1): N/K

Vapor Density (Air=1): N/A

Specific Gravity/Density: ca. 1

Boiling Point: N/K

Melting/Freezing Point: ~ 30 °F (-1.1°C)

Partition Coefficient (n-octanol/water): N/A

pH (10% solution): 8-9.2

Volatile Organic Compound (VOC): Not applicable - Product not regulated for VOC Content at State or Federal level.

Chemical Stability: Stable

Conditions to Avoid: None Known

Incompatible Materials: None Known

Hazardous Decomposition Products: None

Possibility of Hazardous Reactions: None

Liquid hand dishwashing detergents have a relatively low order of toxicity. They may be irritating, but they are not expected to be corrosive. They are expected to be emetic.

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: This finished product is not carcinogenic.

NTP: No

IARC: No

Based on ecotoxicity and fate data for the individual ingredients in this specific formulation, and for related consumer household cleaning products formulations, this product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment at relevant environmental concentrations. The surfactant(s) used in the formulation biodegrade rapidly and do not accumulate in the environment. This product is intended for dispersive use and should not be disposed of directly into the environment.

Waste Disposal Method: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH FEDERAL, STATE /PROVINCIAL AND LOCAL REGULATIONS. The product waste is not considered RCRA hazardous since it is an aqueous solution (>50% water) that contains less than 24% by volume of alcohol.

Non-Household Setting (US Federal): Solutions of diluted detergent in the course of use, may be allowed to be flushed down sewer. First check with your local water treatment plant. Recycling is recommended for undiluted scrap product. Do not landfill.

Non-Household Setting (California): No

Ground Transport (US DOT): Finished product package not regulated.

Air Transport (IATA): Finished product package not regulated.

Marine/Water Transport (IMDG): Finished product package not regulated.

United States

All intentionally-added components of this product are listed on the US TSCA Inventory.

EPA Registration Number: Not Applicable

SARA 313/302/304/311/312 chemicals: None

California: This product has been evaluated and does not require warning labeling under California Proposition 65.

California Registration Number: Not Applicable

State Right-to-Know and CERCLA:

The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists

Ingredient	CAS #	Level	State						CERCLA RQ
			CT	IL	IN	KY	LA	MA	
Ethanol	64-17-5	1-5%	MN	NJ	NC	PA	RI		100 lbs

Canada

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

P&G Hazard Rating:	Health:	1	4=EXTREME
	Flammability:	1	3=HIGH
	Reactivity:	0	2=MODERATE
			1=SLIGHT
			0=NOT SIGNIFICANT

*N/A. - Not Applicable

*N/K. - Not Known

Data supplied is for use only in connection with occupational safety and health.

DISCLAIMER: This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.