



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

MSDS 04L HF03103, HF03108

REVISED DATE: 03-27-2009

PRODUCT NAME: PENNSYLVANIA HANDY FUEL® BRAND CANNED HEAT COOKING FUEL

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

PRODUCT NAME: PENNSYLVANIA HANDY FUEL® BRAND CANNED HEAT COOKING FUEL

UPC/SKU #: HF03103, HF03108, HF03108B, HF03108ECO, HF03108G, HF03108M, HF03108S

CAS NUMBER: Not applicable - product is a mixture

GENERAL USE: A gelled ethyl alcohol food warming fuel. Fuel is SDA-3A (ethyl alcohol denatured with methyl alcohol).

The STERNO GROUP LLC  
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Des Plaines, IL USA 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
Ethanol	64-17-5	67		1000 ppm
Methanol	67-56-1	3-4		200 ppm

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				

ETHANOL: EINECS number: 200-578-6 Eu Classification: F; R11

METHANOL: EINECS number: 200-659-6 Eu Classification: F; R11 T; R23/24/25, R39/23/24/25

## SECTION 3 - HAZARDS IDENTIFICATION

PRECAUTIONARY LABELING: Caution flammable mixture. Keep away from children. Do not use near fire or flame. Contains 3.3% Methyl Alcohol.

EYE CONTACT: Eye irritant upon direct contact.

SKIN CONTACT: May cause skin irritation upon prolonged contact.

INGESTION: Possible Alcoholic breath, exhilaration followed by CNS depression, slurred speech, convulsions and hypoglycemia.

INHALATION: Burn product in a well ventilated area.

## 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. If symptoms persist, contact poison center or doctor.

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): 54 degrees F or 12.1 degrees C (Tag closed cup)

AUTOIGNITION: @ 745 mm Hg: 845.6 degrees F (452 degrees C)

EXTINGUISHING MEDIA: 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. Do not use high pressure stream of water to extinguish burning material.

UNUSUAL FIRE AND EXPLOSION HAZARD: Closed cans exposed to flame and heat may erupt, scattering fragments.

**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 chafin 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. Provide adequate ventilation.  
 PROTECTIVE CLOTHING: The use of eye protection (goggles) and rubber gloves is recommended.  
 RESPIRATORS: Not required.  
 SPECIAL PRECAUTIONS: Keep out of the reach of children.  
 PRECAUTIONARY LABELING: CAUTION: Flammable mixture. Keep away from children. Do not use near flame or fire.

Ethanol Exposure Limits

CAS	Data	List Name	Chemical Name
64-17-5	A4 - Not Classifiable as a Human Carcinogen	ACGIH - Carcinogens	Ethanol
64-17-5	1000 ppm TWA	ACGIH - Occupational Exposure Limits - 8 Hour TWAs	Ethanol
64-17-5	irritation	ACGIH - TLV Basis - Critical Effects	Ethanol
64-17-5	1000 ppm MAK; 1900 mg/m3 MAK	Austria - Occupational Exposure Limits (MAK Values)	Ethanol
64-17-5	Category IV	Austria - Short Term Exposure Categories	Ethanol
64-17-5	1000 ppm VLE; 1907 mg/m3 VLE	Belgium - Occupational Exposure Limits - 8-Hour	Alcool ethylique
64-17-5	1000 ppm TWA; 1900 mg/m3 TWA	Denmark - Occupational Exposure Limits - 8-Hour	Ethanol
64-17-5	LC50 (96 hr) rainbow trout (30 days old):12900-15300 mg/L;Flow-through, 24-24.3 degrees C, pH 7.56-7.60, 40.9-43.7 mg/L CaCO3 ;LC50 (24 hr) fingerling trout:11200 mg/L.;LC50 (96 hr) fathead minnow:14200 mg/L.	Ecotoxicity - Fish Species Data	Ethyl alcohol
64-17-5	[present]	EU - Council Regulation Evaluation of Existing (HPV) Substances - 793/93	Ethyl alcohol
64-17-5	Annex # 603-002-00-5 Nota: - EINECS: 200-578-6 Reference: Annex One 19th Adaptation (L258A), Page(s): 629 Key: 603-002-00-5	EU - Dangerous Substances (Annex I) - Administrative info.	Ethanol
64-17-5	F; R-11 Key: 603-002-00-5	EU - Dangerous Substances (Annex I) - Classification	ETHANOL
64-17-5	F Key: 603-002-00-5	EU - Dangerous Substances (Annex I) - Labels	ETHANOL
64-17-5	S-2 S-7 S-16 Key: 603-002-00-5	EU - Dangerous Substances (Annex I) - Safety Phrases	ETHANOL
64-17-5	Present	EU - Inventory of Cosmetic Ingredients, Other Ingredients (INCI)	Alcohol
64-17-5	Present	EU - Inventory of Cosmetic Ingredients, perfume and aromatic materials (INCI)	ethanol
64-17-5	1300 ppm STEL; 2500 mg/m3 STEL	Finland - Occupational Exposure Limits - 15-Minute	Ethyl alcohol
64-17-5	1000 ppm TWA; 1900 mg/m3 TWA	Finland - Occupational Exposure Limits - 8-Hour	Ethyl alcohol
64-17-5	[present]	Florida - Substance List	Ethyl alcohol
64-17-5	5000 ppm VLE; 9500 mg/m3 VLE	France - Occupational Exposure Limits - 15-Minute VLEs	Alcool ethylique
64-17-5	1000 ppm VME; 1900 mg/m3 VME	France - Occupational Exposure Limits - 8-Hour VMEs	Alcool ethylique
64-17-5	Category 5 (low carcinogenic potency)	Germany (DFG) - Carcinogens	Ethanol
64-17-5	500 ppm MAK; 960 mg/m3 MAK	Germany (DFG) - Occupational Exposure Limits - 8-Hour (MAK Values)	Ethanol
64-17-5	1000 ppm Peak; 1920 mg/m3 Peak	Germany (DFG) - Occupational Exposure Limits - Ceilings (Peak Limitations)	Ethanol
64-17-5	no risk to embryo/fetus if exposure limits adhered to	Germany (DFG) - Pregnancy	Ethanol
64-17-5	1000 ppm TWA; 1900 mg/m3 TWA	Germany - TRGS 900 - 8-Hour Occupational Exposure Limits	Ethanol
64-17-5	Category 3	Germany - TRGS 905 - Developmental Toxins	Ethanol
64-17-5	Category 3	Germany - TRGS 905 - Reproductive Toxins	Ethanol
64-17-5	1; Fussnote 46 Key: 0096	Germany - Water Classification (VwVwS) - Water Hazard Classes	Ethanol
64-17-5	1000 ppm TWA; 1900 mg/m3 TWA	Greece - Occupational Exposure Limits - 8-Hour	Ethyl alcohol
64-17-5	1000 ppm TWA; 1900 mg/m3 TWA	Iceland - Occupational Exposure Limits - 8-Hour	Ethanol (etylalkohol)
64-17-5	200-578-6, C2H6O	Inventory - European Inventory of Existing Commercial Chemical Substances	Ethanol
64-17-5	1000 ppm OEL; 1900 mg/m3 OEL	Ireland - Occupational Exposure Limits - 8-Hour	Ethanol
64-17-5	500 ppm MAC; 1000 mg/m3 MAC	Netherlands - Occupational Exposure Limits - 8 Hour MACs	Ethanol
64-17-5	500 ppm OEL; 950 mg/m3 OEL	Norway - Occupational Exposure Limits - 8-Hour	Ethanol
64-17-5	3000 mg/m3 NDSch	Poland - Occupational Exposure Limits - 30-Minute	Ethanol (Etylowy alkohol)
64-17-5	1000 mg/m3 NDS	Poland - Occupational Exposure Limits - 8-Hour	Ethanol (Etylowy alkohol)
64-17-5	1000 ppm TWA	Portugal - Occupational Exposure Limits - 8-Hour	Ethanol
64-17-5	1000 ppm VLA-ED; 1910 mg/m3 VLA-ED	Spain - Occupational Exposure Limits - 8-Hour (VLA-ED)	Alcohol etílico
64-17-5	1000 ppm STV; 1900 mg/m3 STV	Sweden - Occupational Exposure Limits - 15-Minute (STVs)	Ethyl alcohol
64-17-5	500 ppm LLV; 1000 mg/m3 LLV	Sweden - Occupational Exposure Limits - 8-Hour (LLVs)	Ethyl alcohol
64-17-5	Developmental Risk Group = C	Switzerland - Developmental Risk Group	Ethanol
64-17-5	[Present]	Switzerland - List of Tested Substances not subject to a Toxic Substances Class	Aethanol
64-17-5	1000 ppm STEL; 1920 mg/m3 STEL	Switzerland - Occupational Exposure Limits - 15-Minute	Ethanol
64-17-5	500 ppm MAK; 960 mg/m3 MAK	Switzerland - Occupational Exposure Limits - 8-Hour	Ethanol
64-17-5	1000 ppm TWA; 1920 mg/m3 TWA	United Kingdom - Occupational Exposure Limits - 8-Hour	Ethanol

Methanol Exposure Limits

CAS	Data	List Name	Chemical Name
67-56-1	200 ppm MAK; 260 mg/m3 MAK	Austria - Occupational Exposure Limits (MAK Values)	Methanol
67-56-1	Category II, 1	Austria - Short Term Exposure Categories	Methanol
67-56-1	Skin absorber	Austria - Skin Absorbers	Methanol

67-56-1	250 ppm VLE courte duree; 333 mg/m3 VLE courte duree	Belgium - Occupational Exposure Limits - 15-Minute	Alcool methylique
67-56-1	200 ppm VLE; 266 mg/m3 VLE	Belgium - Occupational Exposure Limits - 8-Hour	Alcool methylique
67-56-1	skin	Belgium - Skin Designations	Alcool methylique
67-56-1	200 ppm TWA; 260 mg/m3 TWA	Denmark - Occupational Exposure Limits - 8-Hour	Methanol
67-56-1	skin absorber	Denmark - Skin Absorbers	Methanol
67-56-1	250 ppm STEL; 330 mg/m3 STEL	Finland - Occupational Exposure Limits - 15-Minute	Methyl alcohol
67-56-1	200 ppm TWA; 270 mg/m3 TWA	Finland - Occupational Exposure Limits - 8-Hour	Methyl alcohol
67-56-1	skin absorber	Finland - Skin Absorbers	Methyl alcohol
67-56-1	1000 ppm VLE; 1300 mg/m3 VLE	France - Occupational Exposure Limits - 15-Minute VLEs	Alcool methylique
67-56-1	200 ppm VME; 260 mg/m3 VME	France - Occupational Exposure Limits - 8-Hour VMEs	Alcool methylique
67-56-1	200 ppm MAK; 270 mg/m3 MAK	Germany (DFG) - Occupational Exposure Limits - 8-Hour (MAK Values)	Methanol
67-56-1	1000 ppm Peak; 1350 mg/m3 Peak	Germany (DFG) - Occupational Exposure Limits - Ceilings (Peak Limitations)	Methanol
67-56-1	danger of cutaneous absorption	Germany (DFG) - Skin/Sensitizers	Methanol
67-56-1	1 Key: 0145	Germany - Water Classification (VwVwS) - Water Hazard Classes	Methanol
67-56-1	250 ppm STEL; 325 mg/m3 STEL	Greece - Occupational Exposure Limits - 15-Minute	Methyl alcohol
67-56-1	200 ppm TWA; 260 mg/m3 TWA	Greece - Occupational Exposure Limits - 8-Hour	Methyl alcohol
67-56-1	200 ppm TWA; 250 mg/m3 TWA	Iceland - Occupational Exposure Limits - 8-Hour	Metanol (metylalkohol)
67-56-1	skin absorber	Iceland - Skin Absorbers	Metanol (metylalkohol)
67-56-1	250 ppm STEL; 310 mg/m3 STEL	Ireland - Occupational Exposure Limits - 15-Minute	Methanol
67-56-1	200 ppm OEL; 260 mg/m3 OEL	Ireland - Occupational Exposure Limits - 8-Hour	Methanol
67-56-1	Skin Absorption	Ireland - Occupational Exposure Limits - Skin Absorbers	Methanol
67-56-1	200 ppm MAC; 260 mg/m3 MAC	Netherlands - Occupational Exposure Limits - 8 Hour MACs	Methanol
67-56-1	Skin absorber	Netherlands - Occupational Exposure Limits - Skin Absorbers	Methanol
67-56-1	100 ppm OEL; 130 mg/m3 OEL	Norway - Occupational Exposure Limits - 8-Hour	Metanol
67-56-1	skin absorber	Norway - Skin Absorbers	Metanol
67-56-1	300 mg/m3 NDSch	Poland - Occupational Exposure Limits - 30-Minute	Metanol (Metylowy alkohol)
67-56-1	100 mg/m3 NDS	Poland - Occupational Exposure Limits - 8-Hour	Metanol (Metylowy alkohol)
67-56-1	200 ppm TWA	Portugal - Occupational Exposure Limits - 8-Hour	Methanol
67-56-1	250 ppm VLA-EC; 333 mg/m3 VLA-EC	Spain - Occupational Exposure Limits - 15-Minute (VLA-EC)	Alcohol metilico
67-56-1	200 ppm VLA-ED; 266 mg/m3 VLA-ED	Spain - Occupational Exposure Limits - 8-Hour (VLA-ED)	Alcohol metilico
67-56-1	skin absorber	Spain - Occupational Exposure Limits - Skin Absorbers	Alcohol metilico
67-56-1	Can be absorbed percutaneously	Sweden - Occupational Designations	Methyl alcohol
67-56-1	250 ppm STV; 350 mg/m3 STV	Sweden - Occupational Exposure Limits - 15-Minute (STVs)	Methyl alcohol
67-56-1	200 ppm LLV; 250 mg/m3 LLV	Sweden - Occupational Exposure Limits - 8-Hour (LLVs)	Methyl alcohol
67-56-1	1000 ppm STEL; 1300 mg/m3 STEL	Switzerland - Occupational Exposure Limits - 15-Minute	Methanol
67-56-1	200 ppm MAK; 260 mg/m3 MAK	Switzerland - Occupational Exposure Limits - 8-Hour	Methanol
67-56-1	Skin absorber	Switzerland - Skin Absorbers	Methanol
67-56-1	Giftklasse 3 Key: G-002063	Switzerland - Toxic Substances Classification	Methanol
67-56-1	250 ppm STEL; 333 mg/m3 STEL	United Kingdom - Occupational Exposure Limits - 15-Minute	Methanol
67-56-1	200 ppm TWA; 266 mg/m3 TWA	United Kingdom - Occupational Exposure Limits - 8-Hour	Methanol
67-56-1	can be absorbed through skin	United Kingdom - Occupational Exposure Limits - Notes	Methanol

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Blue gel, alcohol odor VAPOR PRESSURE: N/A  
 DENSITY: 0.85 g/cm3 VAPOR DENSITY: N/A  
 SOLUBILITY IN WATER: Moderate BOILING POINT: 167.54 degrees F or 75.3 degrees C  
 pH: 7.5-8.5 (as is) FREEZE/MELT POINT: N/A

## SECTION 10 - STABILITY AND REACTIVITY

GENERAL: This product is stable. Hazardous polymerization will not occur.  
 INCOMPATIBLE MATERIALS: Heat, open flame, strong oxidizers.  
 HAZARDOUS DECOMPOSITION: None known.

## SECTION 11 - TOXICOLOGICAL INFORMATION

No information on product is available at this time.

## SECTION 12 - ECOLOGICAL INFORMATION

No information on product is available at this time.

## 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

DOT CLASSIFICATION: HF03103, HF03108, HF03108B, HF03108ECO, HF03108G, HF03108M, HF03108S

DOMESTIC: Consumer Commodity ORM-D

INTERNATIONAL: FLAMMABLE LIQUIDS, N.O.S., (CONTAINS ETHANOL) 3, UN1993, III, LIMITED QUANTITY

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## SECTION 15 - REGULATORY INFORMATION

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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). This product is considered a hazardous waste based on flammability.

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: The RQ for Methyl Alcohol is 5000 lbs. Releases greater than or equal to this amount must be reported to the National Response Center (NRC) immediately: 1-800-424-8802.

### PRODUCT LABELING INFORMATION:

SYMBOL: F;Xn,

RISK PHRASES: Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

SAFETY PHRASES: Keep out of reach of children. Keep away from sources of ignition – NO SMOKING. If swallowed seek medical advice immediately and show this container label. Keep container tightly closed and in a well ventilated place. Dispose of this material

and its container to hazardous or special waste collection point.

German Water Classification (WGK): 1, Fussnote 46

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## SECTION 16 - OTHER INFORMATION

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RISK PHRASES IN SECTION 2: R11: Highly flammable.

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.

R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

### FOR OTHER PRODUCT INFORMATION CONTACT:

Sterno International  
Hartnoll Business Centre  
Post Hill  
Tiverton  
Devon  
England  
EX16 4 NG  
1-44 (0) -1884-255-954

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MSDS REVISION INDICATORS: Revised Sections 5, 9, 16, Header.

REVISION DATE: March 27, 2009, October 25, 2007, Supersedes: May 31, 2007

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