

SAFETY DATA SHEET

SAVOGRAN
GALLEY HEAT

Revision: 3/5/2015

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1. Product and Company Identification

Product Name : GALLEY HEAT
Product Code : 1400N-A
Recommended Use: BOAT STOVE FUEL

Company Identification:
SAVOGRAN
259 LENOX STREET
PO BOX 130
NORWOOD, MA 02062-0130
Information Phone: 781-762-5400
Emergency Phone: 800-424-9300
Website Address: www.savogran.com

Synonyms: 080014, Denatured Ethanol

2. Hazards Identification

Classification:
Flammable liquids: Category 2/Eye irritatin: Category 2A/Skin irritation:
Category 2/Acute Toxicity(oral): Category 4/Specific target organ
toxicity(single exposure): Category 1/Specific target organ toxicity(repeated
exposure): Category 3



Label Hazard Statement:
WARNING! FLAMMABLE. Eye irritant.Keep away from heat, sparks and flame.Allow hot
appliances to cool before refueling. Turn off ignition sources including motors,
heaters, stoves and pilot lights.Vapors can ignite causing explosion.

Potential Health Effects:

Eye:
May cause eye irritation. Symptoms include stinging, tearing, and redness.
Skin:
Short contact may cause slight reddening or no irritation. Prolonged or
frequently repeated contact can cause irritation, defatting, dermatitis and
may result in absorption of harmful amounts. Some ingredients in this product
may be absorbed through intact skin and produce toxic effects similar to
swallowing.

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Ingestion:

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Inhalation:

Breathing of vapor is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 3).

Chronic Overexposure Information:

Intentional misuse by deliberately concentrating and inhaling the product may be harmful or fatal. Reports have associated repeated and prolonged overexposure to solvents with permanent brain, nervous system, liver and kidney damage.

Teratology and Reproduction Information:

This product contains ethanol. Alcoholic beverage consumption has been associated with birth defects in humans. The relevance of this finding to ethanol exposure in industrial environments is uncertain.

Aggravation of Pre-Existing Conditions:

Persons thought to have heart or respiratory problems should seek medical advice before using solvents of any kind. If signs of allergy develop (breathing difficulty, eye itching, prolonged itching or redness of the skin, headaches, dizziness, etc.) discontinue use of product immediately and consult a physician. Caution: Drinking alcohol shortly before, during or after exposure to some solvents may cause undesirable effects.

OSHA Hazard Communication Standard:

This product is defined as hazardous by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

3. Composition/Information on Ingredients

Component	CAS#	% by Wt.
ETHANOL ACGIH/OSHA 1000 ppm TWA	64-17-5	95% - 100%

4. First Aid Measures

Eyes:

Rinse with water for 15 minutes. If irritation persists seek medical attention.

Skin:

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion:

If ingested, DO NOT induce vomiting; call a physician immediately.

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Inhalation:

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention.

Note to Physicians:

Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.

When plasma methanol concentrations are higher than 20 milligrams per deciliter, when ingested doses are greater than 20 milliliters, and when there is evidence of acidosis or visual abnormalities, a 10% solution of ethanol in 5% aqueous dextrose, administered intravenously, is a safe, effective antidote (Western Journal of Medicine, March 1985, p. 337)

5. Fire Fighting Measures

Flammable Properties:

WARNING! FLAMMABLE. Keep away from heat, sparks, flame and all other sources of ignition. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and all other sources of ignition during use and until all vapors are gone. Beware of static electricity that may be generated.

Hazardous Combustion Products:

May form carbon dioxide and carbon monoxide, various hydrocarbons.

Extinguishing Media:

Carbon dioxide (CO₂), Dry chemical, Alcohol-resistant foam.

Firefighting Procedures:

Wear self-contained breathing apparatus with full face piece operated in pressure-demand or other positive pressure mode. Straight water steam will spread fire. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed.

6. Accidental Release Measures

Small Spill:

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

Large Spill:

Wear proper protective equipment. Stop spill at source, dike area of spill to keep from spreading and keep out of ground water and streams. Transfer material to metal containers. Absorb remainder with sand, clay, earth, floor absorbent or other material and shovel into containers. Then wash area thoroughly with water and detergent. Ventilate adequately with good fresh air movement at floor level.

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Do not restart pilot lights or operate electrical devices or other sources of sparks, flames or heat until all vapors (odors) are gone.

Environmental Precautions:
NO DATA

Methods/Materials for Containment and Cleaning Up:
Eliminate all ignition sources. Runoff may create fire or explosion hazard in sewer system. Absorb on fire retardant, liquid-absorbing material. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

7. Handling and Storage

Handling:

Do not breathe material. Keep container closed. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor and liquid), all hazard precautions given in the data sheet must be observed. All five-gallon pails and larger metal containers should be grounded and/or bonded when material is transferred.

Storage:

Keep away from heat. Keep away from sources of ignition. Keep container tightly closed in a cool, well-ventilated place. Keep out of reach of children.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: See Section 3

Engineering Controls:

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Personal Protective Equipment:

Respiratory Protection:

For known vapor concentrations above the occupational exposure guidelines, use NIOSH approved organic vapor respirator.

Skin Protection:

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

Eye Protection:

Chemical goggles or safety glasses with side shield.

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9. Physical and Chemical Properties

Boiling Point: 176F
Melting Point: NO DATA
Freezing Point: NO DATA
Vapor Pressure: 46mmHg20C
Vapor Density: 1.6(Air=1)
Solubility in Water: TOTAL
Evaporation Rate: 1.7 (n-Butyl Acetate)
Flash Point: 57F Method: ASTM D 56, tag closed cup
Lower explosive limit: 3.3%
Upper explosive limit: 21.1%
Autoignition Temperature: 795F
Specific Gravity: .81
pH(1% in H2O): NO DATA
Odor: Alcoholic
Appearance:: Clear liquid

10. Stability and Reactivity

Chemical Stability (Conditions to Avoid): Stable

Incompatibility:
Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products:
Carbon dioxide and carbon monoxide, various hydrocarbons.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Acute:
Ethanol: Oral LD 50 Rat 7,060 mg/kg; Dermal LD Lo Rabbit 20 g/kg
Methanol: Oral LD L0 Human: 300 mg/kg; Inhalation LC 50 Rat 64000 ppm,4h;Dermal LD 50 Rabbit 12800 mg/kg
Ethyl Acetate: Oral LD 50 Rat 5600 mg/kg; Inhalation LC 50 Rat 16000 mg/l, 6h

Subchronic:
NO DATA

Chronic/Carcinogenicity:
NO DATA

Routes of Exposure:
Inhalation, Skin absorption, Skin contact, Eye contact, Ingestion.

12. Ecological Information

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Environmental Fate: NO DATA

13. Disposal Considerations

Waste Disposal Method:

Dispose of in accordance with local, state and federal regulations.

14. Transport Information

Land Transport (DOT):

Quart, Limited Quantity; Gallon and larger, UN1987/Alcohol, N.O.S.
(Ethanol,Methanol)/3/PGII- Flammable

15. Regulatory Information

U.S. Federal Regulations:

TSCA: The intentional ingredients of this product are listed.

OSHA: The intentional regulated ingredients of this product are listed.

CERCLA: SARA Hazard Category: Immediate/Fire

Section 313: This product contains chemicals (Marked * in section 3)
which are subject to reporting requirements of Section 313 of Title III of
The Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part
372

Reportable Quantity: Product Component (Methanol-5000lb)

State Regulations:

New Jersey RTK Label Information: Ethanol, 64-17-5; Methanol, 67-56-1,

Pennsylvania RTK Label Information: Ethanol, 64-17-5; Methanol, 67-56-1

Volatile Organic Compounds: 100% by wt.;808 g/l;6.75 pounds/gallon

16. Other Information:

NFPA Ratings: 2,3,0

Manufacturer Disclaimer:

Judgement of potential hazards of this product is based on information available about individual components listed under section 3 - Ingredients. Direct testing of mixture has not been done. Flash point has been tested. Information given herein is believed to be accurate and is given in good faith. However, no warranty either expressed or implied is made. It is strongly suggested that users confirm in advance of need that the information is current and applicable to their situations.