

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations



Printing date: August 10, 2018

Revision: August 10, 2018

1 Identification

- **Product identifier**
- **Trade name:** **First Street Ethanol Green**
- **Product code:** 63052 (F617), 63058 (F637), 62606 (F104)
- **Recommended use and restriction on use**
- **Recommended use:** Gelled Alcohol Food Warming Fuel
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Fancyheat Corporation
40 Veronica Avenue
Somerset, NJ 08873 USA
1-973-589-1450
- **Emergency telephone number:**
CHEMTREC
1-800-424-9300 (US/Canada)
+01 703-527-3887 (International)

2 Hazard(s) identification

- **Classification of the substance or mixture**
Flam. Sol. 1 H228 Flammable solid.
Eye Irrit. 2A H319 Causes serious eye irritation.
- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**

GHS02 GHS07
- **Signal word:** Danger
- **Hazard statements:**
H228 Flammable solid.
H319 Causes serious eye irritation.
- **Precautionary statements:**
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P264 Wash thoroughly after handling.
P280 Wear protective gloves and eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.

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- **Other hazards** There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Components:**

64-17-5	ethanol	 Flam. Liq. 2, H225  Eye Irrit. 2A, H319	65-75%
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- **Additional information:** For the wording of the listed Hazard Statements refer to section 16.

4 First-aid measures

- **Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation is experienced, consult a doctor.

- **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- **Most important symptoms and effects, both acute and delayed:**

Headache

Dizziness

Causes eye irritation.

May cause gastro-intestinal irritation if ingested.

Nausea in case of ingestion.

- **Indication of any immediate medical attention and special treatment needed:**

No relevant information available.

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

Alcohol resistant foam

Foam

Water fog / haze

Carbon dioxide

- **For safety reasons unsuitable extinguishing agents:** Water stream.

- **Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Carbon monoxide, carbon dioxide.

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- **Advice for firefighters**
- **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.
- **Additional information:**
 - Cool endangered containers with water fog.
 - Use large quantities of foam as it is partially destroyed by the product.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 - Ensure adequate ventilation.
 - Keep away from ignition sources.
 - Use personal protective equipment as required.
- **Environmental precautions** Avoid release to the environment.
- **Methods and material for containment and cleaning up**
 - Pick up mechanically.
 - Send for recovery or disposal in suitable receptacles.
- **Reference to other sections**
 - See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **Precautions for safe handling:**
 - Use only in well ventilated areas.
 - Open and handle receptacle with care.
 - Keep out of reach of children.
- **Information about protection against explosions and fires:**
 - Keep ignition sources away - Do not smoke.
 - Protect from heat.
 - Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
 - Store in cool, dry conditions in well sealed receptacles.
 - Avoid storage near extreme heat, ignition sources or open flame.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Specific end use(s)** No relevant information available.

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8 Exposure controls/personal protection

Control parameters**Components with limit values that require monitoring at the workplace:****64-17-5 ethanol**

PEL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm
REL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV (USA)	Short-term value: 1880 mg/m ³ , 1000 ppm
EL (Canada)	Short-term value: 1000 ppm
EV (Canada)	Long-term value: 1900 mg/m ³ , 1000 ppm
LMPE (Mexico)	Long-term value: 1000 ppm A3

Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Engineering controls: No relevant information available.**Breathing equipment:**

Not required under normal conditions of use.

Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.

Protection of hands:

Not required under normal conditions of use.

Wear protective gloves to handle contents of damaged or leaking units.

Eye protection: Follow relevant national guidelines concerning the use of protective eyewear.**Body protection:** Not required under normal conditions of use.**Limitation and supervision of exposure into the environment**

No relevant information available.

9 Physical and chemical properties

Information on basic physical and chemical properties**Appearance:****Form:** Solid gel.**Color:** Green**Odor:** Alcohol-like**Odor threshold:** Not determined.**pH-value:** 7.5-8.5**Melting point/Melting range:** Not determined.**Boiling point/Boiling range:** 73.5-82.5°C (164-181 °F)

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· Flash point:	25.5°C (78 °F)
· Flammability (solid, gaseous):	Flammable solid.
· Auto-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits	
Lower:	3.9 Vol %
Upper:	19.6 Vol %
· Oxidizing properties:	Non-oxidizing.
· Vapor pressure at 20°C (68 °F):	49 mmHg
· Density:	
Relative density:	0.802
Vapor density:	Not applicable.
Evaporation rate:	Not applicable.
· Solubility in / Miscibility with Water:	Soluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Other information	No relevant information available.

10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
Flammable.
Reacts with strong oxidizing agents.
Used empty containers may contain product gases which form explosive mixtures with air.
- **Conditions to avoid** Excessive heat.
- **Incompatible materials** Oxidizers
- **Hazardous decomposition products** Carbon monoxide and carbon dioxide

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11 Toxicological information

Information on toxicological effects**Acute toxicity:****LD/LC50 values that are relevant for classification:****64-17-5 ethanol**

Oral	LD50	7060 mg/kg (rat)
Inhalative	LC50/4h	20000 mg/l (rat)

Primary irritant effect:

- On the skin: Based on available data, the classification criteria are not met.

- On the eye: Irritating effect.

- Sensitization: Based on available data, the classification criteria are not met.

IARC (International Agency for Research on Cancer):

64-17-5 ethanol

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NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

- Germ cell mutagenicity: Based on available data, the classification criteria are not met.

- Carcinogenicity: Based on available data, the classification criteria are not met.

- Reproductive toxicity: Based on available data, the classification criteria are not met.

- STOT-single exposure: Based on available data, the classification criteria are not met.

- STOT-repeated exposure: Based on available data, the classification criteria are not met.

- Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

Toxicity

- Aquatic toxicity No relevant information available.

- Persistence and degradability Biodegradable.

- Bioaccumulative potential: Does not accumulate in organisms

- Mobility in soil: No relevant information available.

Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

- Other adverse effects No relevant information available.

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13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Smaller quantities can be disposed of with household waste.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

· **Uncleaned packagings**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**

· **DOT, ADR, IMDG, IATA** UN1325

· **UN proper shipping name**

· **DOT** Flammable solids, organic, n.o.s. (Ethanol)
 · **ADR, IMDG** FLAMMABLE SOLID, ORGANIC, N.O.S. (ETHANOL)
 · **IATA** Flammable solid, organic, n.o.s. (Ethanol)

· **Transport hazard class(es)**

· **DOT**



· **Class** 4.1 Flammable solids, self-reactive substances and solid desensitised explosives
 · **Label** 4.1

· **ADR**



· **Class** 4.1 (F1) Flammable solids, self-reactive substances and solid desensitised explosives
 · **Label** 4.1

· **IMDG, IATA**



· **Class** 4.1 Flammable solids, self-reactive substances and solid desensitised explosives

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<ul style="list-style-type: none"> · Label · Packing group · DOT, ADR, IMDG, IATA · Environmental hazards · Marine pollutant: · Special precautions for user · Danger code (Kemler): · EMS Number: 	<p>4.1</p> <p>II</p> <p>No</p> <p>Warning: Flammable solids, self-reactive substances and solid desensitised explosives</p> <p>40 F-A,S-G</p>
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· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 kg.

· **ADR**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 kg.

· **IMDG**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 kg.

· **IATA**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 0.5 kg each / 5 kg net.

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

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· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· Proposition 65 (California)**· Chemicals known to cause cancer:**

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

64-17-5 | ethanol

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

64-17-5 | ethanol

· Carcinogenic categories**· EPA (Environmental Protection Agency):**

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

64-17-5 | ethanol

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· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

· Canadian Domestic Substances List (DSL):

All ingredients are listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** August 10, 2018 / -

· Abbreviations and acronyms:

LDLo: Lowest Lethal Dose Observed

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulable, Toxique

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

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Flam. Liq. 2: Flammable liquids – Category 2
Flam. Sol. 1: Flammable solids – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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