

SAFETY DATA SHEET For All Ethanol Jelled Packages
JELLED ETHANOL/BBSeries CHAFING DISH FUEL

Blaze Products Corporation urges the customer receiving this Safety Data Sheet (SDS) to study it carefully to become aware of hazards, if any, of the product involved. In the interest of safety, you should: (1) notify your employees, agents, and contractors of the information on this sheet, and (2) furnish a copy to each of your customers to inform their employees and customers as well.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1. Product identifier

| | |
|---------------------------|---|
| Product name | Blaze Jelled Ethanol Chafing Dish Fuel All Blaze BB Series Ethanol Fuel |
| Synonym(s) | Jelled Ethanol (<i>Limited Quantity</i>) BB200 Flammable Solids, Organic, N.O.S. (contains jelled Ethanol) |
| CAS number | 64-17-5 |
| EC number | 200-578 -6 |
| Index number | 603-002-005-5 |
| REACH Registration number | 01-2119457610-43-0433 |

1.2. Relevant identified uses of the substance and uses advised against

| | |
|--------------|--|
| Applications | A jelled alcohol fuel for warming food, in chafing dishes only. The fuel is jelled Ethanol. Keep out of reach of children and pets. |
|--------------|--|

1.3. Details of the supplier of the safety data sheet

| | |
|-----------|--|
| Name | BLAZE Products Corporation |
| Address | P. O. Box 1409 Shelbyville, Kentucky 40066-1409 |
| Telephone | (502) 633-0650 |
| Contact | Chemtrec 1-800-424-9300 or 703-527-3887 |

1.4. Emergency telephone number

| | |
|-----------|--|
| Telephone | <u>USA</u> : 24 hr Emergency Assistance: 1-800-424-9300 day or night <u>Dutch</u> : Poison Control Centre (NVIC Poison Centre +31(0)30-2748888 for medical professionals only.) <u>Outside the continental United States</u> : 1-703-527-3887 (collect calls accepted). (CHEMTREC) |
|-----------|--|

2. HAZARDS IDENTIFICATION

2.1.1. Classification of the mixture according to the regulation (EC) no. 1272/2008 (CLP)
Flam. Sol. 1 H228 Flammable Solid

2.2. Label elements according to the regulation (EC) no. 1272/2008 (CLP)

Hazard pictograms



GHS 02 flame

Signal word

Danger

Hazard statements

H228 Flammable Solid
H316 Causes mild Irritation.

Precautionary statements
– Prevention

P101 If medical advice is needed, have product container or label on hand.
P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Precautionary statements
– Response

P303 + P361 + P353 If on skin or hair: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P370 + P378 In case of fire, use for extinguishing: CO2, powder or water spray.

Precautionary statements
– Storage

P403 + P235 Store in a well-ventilated place. Keep cool.
P233 Keep container tightly closed.

Precautionary statements
– Disposal

P501 Dispose of contents/container as hazardous or special waste in accordance with local and national regulations.



| | |
|--------------|---|
| HEALTH | 2 |
| FLAMMABILITY | 3 |
| REACTIVITY | 0 |

2.3. Other hazards

WHMIS symbols: B4 – Flammable Solid



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3. COMPOSITION/INFORMATION ON INGREDIENTS

| Name | CAS-Nr. | EC-Nr. | Index-Nr. | [%] | Classification DSD/CLP | Specific concentrations limit |
|------------------------|-----------|-----------|--------------|-------|--|--|
| Ethanol | 64-17-5 | 200-578-6 | 603-002-00-5 | <70.0 | Flam. Liq. 2 ; H225 | - |
| Methanol | 67-56-1 | 200-659-6 | 603-001-00-X | <3.0 | Flam. Liq. 2 ; H225 Acute Tox. 3 ; H331 Acute Tox. 3 ; H311 Acute Tox. 3 ; H301 | STOT SE 1; H370: C = 10 % STOT SE 2; H371: 3 % = C < 10 % STOT SE 1 ; H370 |
| Acetone | 67-64-1 | 200-662-2 | 606-001-00-8 | Trace | - | - |
| Denatonium Benzoate | 3734-33-6 | 223-095-2 | | Trace | - | - |

4. FIRST AID MEASURES

4.1. Description of first aid measures

| | |
|--------------------|---|
| After eye contact | Remove contact lenses if worn. Hold eye lids open and flush with water for 15 minutes. Call physician if irritation persists. |
| After skin contact | Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use. |
| After inhalation | Move individual to fresh air. |
| After ingestion | If victim is conscious, give two glasses of water. Do not induce vomiting. Call a physician or Poison Control Center(USA): 1-800-222-1222 immediately. Never give anything by mouth to an unconscious person. <u>Dutch</u> : Poison Control Centre (NVIC Poison Centre +31(0)30-2748888 for medical professionals only.) |
| General Remark | Any doubt, seek medical attention and show container label. |

4.2. Most important symptoms and effects, both acute and delayed

See 4.1.

EYES: Can cause severe irritation, redness, tearing.

SKIN: Prolonged or repeated contact can cause moderate irritation, defatting and dermatitis.

BREATHING: Excessive inhalation of vapors can cause nasal and respiratory irritation.

SWALLOWING: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIREFIGHTING MEASURES

| | |
|--|---|
| 5.1. Extinguishing media | In case of fire: Use water, water mist or carbon dioxide for extinguishing. |
| 5.2. Special hazards arising from the substance or mixture | Closed cans that are exposed to flame and heat may erupt scattering burning fragments. |
| 5.3. Advice for fire-fighters | Wear self-contained respiratory protective device. Wear fully protective suit. |
| Additional Information | Cool endangered receptacles with water spray. Flash Point: Tag closed cup 54°F (12.2°C) Ignition Temperature: 430°F |

6. ACCIDENTAL RELEASE MEASURES

| | |
|--|---|
| 6.1. Personal precautions, protective equipment and emergency procedures | Keep away from fire and other ignition sources. Ventilate the area. No smoking. |
| 6.2. Environmental precautions | Do not allow to enter sewers/surface of ground water. |
| 6.3. Methods and material for containment and cleaning up | Absorb spilled material using paper, floor absorbents, or other absorbent material. |
| 6.4. Reference to other sections | See precautions in section 7 for information on safe handling. See section 8 for information on personal protective equipment. See section 13 for disposal information. |

7. HANDLING AND STORAGE

| | |
|---|---|
| 7.1. Precautions for safe handling | Keep away from fire and other ignition sources. Ventilate the area. Do not smoke. Handle in accordance to national and regional regulations. |
| 7.2. Conditions for safe storage, including any incompatibilities | Keep container tightly closed and store in a cool (40-120°F or 4-49°C), well-ventilated place. Keep away from heat/sparks/open flame/hot surfaces/direct sunlight. Keep cool. No smoking. |
| 7.3. Specific end use(s) | This is a jelled alcohol fuel for warming food in chafing dishes only. |

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameter of the Netherlands

8.1 Control parameters

Occupational exposure limit values:

Ethanol (CAS 64-17-5)

- Listed on the Dutch list of carcinogenic substances (2015)
- OEL 8 hour TGG = 260 mg/m³; 15 min TGG = 1900 mg/m³; skin notation (H) (Netherlands 2008)
- OEL 8 hour TGG = 960 mg/m³, 500 ppm; 15 min TGG = 1920 mg/m³, 1000 ppm (Germany-AGS 2009)
- OEL 8 hour TGG = 1900 mg/m³, 1000 ppm; 15 min TGG = 9600 mg/m³, 5000 ppm (France 2010)
- OEL 8 hour TGG = 1900-1920 mg/m³, 1000 ppm (Belgium, 2009; Denmark 2007; United Kingdom 2005; Spain 2010)

Methanol (CAS 67-56-1)

- Listed on the Dutch NON-exhaustive list of reprotoxic(2015)
- OEL 8 hour TGG = 133 mg/m³, 100 ppm; skin notation (H) (Nederland 2010)
- SCOEL 8 hour TGG = 260 mg/m³; 15 min TGG = 520 mg/m³; skin notation (H) (Europe – SCOEL, 2007)
- OEL 8 hour TGG = 260-270 mg/m³, 200 ppm; skin notation (H) (Denmark, 2007; Germany-AGS 2009)
- OEL 8 hour TGG = 260 mg/m³, 200 ppm; 15 min TGG = 1300 mg/m³, 1000 ppm (France 2008)
- OEL 8 hour TGG = 266 mg/m³, 200 ppm; 15 min TGG = 333 mg/m³, 250 ppm (Belgium, 2009; United Kingdom 2005)

Recommended monitoring methods:

There should be procedures for monitoring concentrations of hazardous substances in the air and procedures of monitoring air quality applied in the workplace – if they are available and based on the particular function – in accordance with applicable national and European standards.

Biological monitoring : not known

DNEL / PNEC values :

Ethanol (CAS 64-17-5)

- DNEL (inhalation, short term, local effects) = 1900 mg / m³
- DNEL (inhalation, long term, systemic) = 950 mg / m³
- DNEL (skin, long term, systemic) = 343 mg / kg body weight / day

- PNEC (aquatic toxicity, fresh water) = 0.96 mg/l
- PNEC (aquatic toxicity, seawater) = 0.79 mg/l
- PNEC (intermittent release) = 2,75 mg/l
- PNEC (purifier) = 580 mg/l
- PNEC (sediment, fresh water) = 3,6 mg/l
- PNEC (sediment, seawater) = 2,9 mg/l
- PNEC (soil) = 0,63 mg/kg dry weight
- PNEC (oral; secondary poisoning) = 0,72 g/kg food

Methanol (CAS 67-56-1)

- DNEL (inhalation, short & long term, systemic & local) = 260 mg / m³
- DNEL (skin, short & long term, systemic) = 40 mg / kg body weight / day

- PNEC (aquatic toxicity, fresh water) = 20,8 mg/l
- PNEC (aquatic toxicity, seawater) = 2,08 mg/l
- PNEC (intermittent release) = 1540 mg/l
- PNEC (purifier) = 100 mg/l
- PNEC (sediment, fresh water) = 77 mg/l
- PNEC (sediment, seawater) = 7,7 mg/l
- PNEC (soil) = 3,18 mg/kg dry weight

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| Compound | TLV (units): Threshold Limit | PEL: Permissible Exposure Limit |
|----------|------------------------------|---------------------------------|
| Ethanol | 1000 ppm | 1000 ppm |
| Methanol | 200 ppm (skin) | 200 ppm (skin) |
| Acetone | 1000 ppm | 1000 ppm |

8.2. Exposure controls

Respiratory protection: Not required under normal conditions of use.

Hand protection: Not required under normal conditions of use. Wash hands with soap and water immediately after cleaning up spilled product or wear gloves to clean up area.

Eye protection: Not required under normal conditions of use.

Body protection: Not required under normal conditions of use.

Hygiene measures: Wash hands after handling products. Not to be consumed.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information of basic physical and chemical properties

| | |
|--|--------------------------|
| Physical state | Ethanol Solid Jell |
| Colour | Pink-red |
| Odour | Alcohol odour |
| Odour threshold | Not applicable |
| pH | Not applicable |
| Freezing point | Not applicable |
| Boiling point | 77°C (170.6°F) |
| Flash point | Tag Closed 54°F (12.2°C) |
| Flammability | Flammable |
| Auto flammability | 845.6°F (452°C) |
| Upper/lower flammability or explosive limits | Not applicable |
| Explosive properties | No |
| Oxidizing properties | Not applicable |
| Vapour pressure | Not applicable |
| % volatile by volume | 98% |
| Vapour density (AIR = 1) | Not applicable |
| Relative density | Not applicable |

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| | |
|---|----------------|
| Density | Not applicable |
| Specific gravity (H ₂ O=1) at 80° F | Not applicable |
| Solubility in water | Mostly soluble |
| Partition coefficient (n-octanol/water) | Not applicable |
| Decomposition temperature | Not applicable |
| Viscosity | Not applicable |

9.2. Other information

No other information

10. STABILITY AND REACTIVITY

| | |
|--|---|
| 10.1. Reactivity | Generally stable |
| 10.2. Chemical stability | Stable |
| 10.3. Possibility of hazardous reactions | Hazardous polymerisation will not occur |
| 10.4. Conditions to avoid | Heat; open flame, direct sunlight, and consumption. |
| 10.5. Incompatible materials | Strong oxidizers |
| 10.6. Hazardous decomposition materials | None known |

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

| | |
|-------------------------------|---|
| Acute toxicity | LC50 inhalation rat (mg/l) 124.7mg/L/4h ATE US (vapors) 124.700 mg/L/4h ATE US (dust, mist) 124.700 mg/L/4h |
| Skin corrosion/irritation | Prolonged or repeated contact can cause moderate irritation, defatting and dermatitis. |
| Serious eye damage/irritation | Can cause severe irritation, redness and tearing |
| Skin sensitization | Not classified. |
| Germ cell mutagenicity | Not classified. |
| Carcinogenicity | Not classified. |
| Reproductive toxicity | Not classified. |
| STOT-single exposure | Not classified. |
| STOT-repeated exposure | Not classified. |

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Aspiration hazard Not classified.

11.2. Other information

Inhalation: Excessive inhalation of vapors can cause nasal and respiratory irritation.

Ingestion: Swallowing can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - general

The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

| Ethyl alcohol (64-17-5) | |
|-------------------------|---|
| LC50 fish 1 | 12.0 – 16.0 ml/l (Exposure time: 96 h – Species: <i>Oncorhynchus mykiss</i> [static]) |
| EC50 Daphnia 1 | 9268 – 14221 mg/l (Exposure time: 48 h – Species: <i>Daphnia magna</i>) |
| LC50 fish 2 | > 100 mg/l (Exposure time: 96 h – Species: <i>Pimephales promelas</i> [static]) |
| EC50 Daphnia 2 | 2 mg/l (Exposure time: 48 h – Species: <i>Daphnia magna</i> [static]) |

12.2. Persistence and degradability

200 Proof Ethanol: Not established.

12.3. Bioaccumulative potential

200 Proof Ethanol: Not established.

Ethyl alcohol (64-17-5): Log Pow – (-0.32)

12.4. Mobility in soil

No additional information available.

12.5. Other adverse effects

Effect on global warming:

No known ecological damage caused by this product.

Other information:

Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recycling/disposal in a safe manner according to national and regional regulations. Do not allow product to reach sewage system.

13.2. List of CER codes

Allocation of the waste code numbers according EC Directive 91/692/EEC must be realized under considerations of existing sector specifics and processes.

14. TRANSPORT INFORMATION

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Overland transport
(ADR/RID)

River transport (ADN)

Sea transport (IMDG)

14.1. DOT Classification USA
Domestic (All BLAZE BB Series
except BB200)

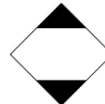
Consumer Commodity ORM-D

CONSUMER COMMODITY



14.3. DOT Classification
International (All BLAZE BB
Series except BB200 Gallon
Cans)

UN1325, Flammable solid, organic, N.O.S. (contains jelled Ethanol), 4.1.,PG II, LTD.QTY



Marine pollutant: No
Tunnel Restrictions: Code (E)
Flashpoint: 12.2°C

14.2. DOT Classification USA &
International for BB200 Gallon
Cans are over 1 kg.

UN1325, Flammable solid, organic, N.O.S. (contains jelled Ethanol), 4.1.,PG II
Emergency Guide #133



ADR, IMDG

Marine pollutant: No
Tunnel Restrictions: Code (E)
Flashpoint: 12.2°C

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Warning; Flammable Solids

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

15. REGULATORY INFORMATION

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

| | |
|------------------------|---|
| SARA Regulation | Components present in this product at a level which could require reporting under the statute (Section 313) are: Methanol (CAS 67-56-1): 2.75% Acetone (CAS 67-64-1): 2.0% |
| US Federal regulations | <u>200 Proof Ethanol</u> SARA Section 311/312 Hazard Classes: Fire hazard Delayed (chronic health hazard Immediate (acute) hazard <u>Ethyl alcohol (64-17-5)</u> Listed on the United States TSCA (Toxic Substances Control Act) inventory. |

15.2. Chemical safety assessment

| | |
|---------------------------|--|
| International regulations | Canada <u>Ethyl alcohol (64-17-5)</u> Listed on the Canadian DSL (Domestic Substances List). WHMIS Classification: Class B Division 2 – Flammable Solid Class D Division 2 Subdivision B – Toxic material causing other toxic effects EU-Regulations <u>Ethyl alcohol (64-17-5)</u> Listed on the EEC Inventory EINECS (European Inventory of Existing Commercial Chemical Substances). Classification according to Regulation (EC) No. 1272/2008 (CLP): Not classified. REACH (EC 1907/2006) a) Substance of potential concern (Art.59) : components are not included as substance of potential concern b) Authorization (Title VII) : components are not included on authorization list c) Restrictions (Title VIII) : components are not included on list of restrictions Other legislation (EC): see section 13 National laws : see section 8 |
|---------------------------|--|

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16. OTHER INFORMATION

16.1. Indications on the revision

SDS revised on the 7/13/2015: Addition of all fields as required by regulations 1907/2006/EC and 453/2010/EC.

16.2. Abbreviations and acronyms used

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on inland waterways.

ADR/RID: European Agreement concerns the International Carriage of Dangerous Goods by Road/ Regulations concerning the international carriage of dangerous goods by rail.

CAS Nr.: Chemical Abstract Service Number

CERCLA: Comprehensive Environmental Response Compensation and Liability Act

CLP: Classification, Labeling and Packaging

DOT: US Department of Transportation (USA)

DSD: Dangerous Substance Directive

DPD: Dangerous Preparation Directive

EC Nr.: European Commission Number

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

HMIS: Hazardous Material Identification System (USA)

IATA: International Air Transport Associations

IMDG: International Maritime Dangerous Goods code

NFPA: National Fire Protection Association (USA)

PBT: Persistent, Bioaccumulative, Toxic

UN Nr.: United Nations Number

vPvB: very Persistent and very Bioaccumulative

WHMIS: Workplace Hazardous Materials Information System (Canada)

16.3. Key literature references and sources for data Vendor SDS

16.4. Methods of evaluation for the classification of Vendor SDS
mixtures

16.5. List of relevant hazard statements, safety phrases and/or precautionary statements not listed in section 2

H phrases:

H228 Flammable Solid

H319 Causes mild eye irritation

H332 Harmful if inhaled

H335 May cause respiratory irritation



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This information is based on our present knowledge and is provided according to the relevant EC and national regulations. This information is intended as a characterization of the product in order to provide guidance for the relevant safety issues. However, this document does not provide any warranty, expressed or implied, regarding the properties of the product.

No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices and/or standard operation procedures listed on packaging & website.

www.blazeproducts.com