

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 (Consumer Commodity) BB200 Flammable Solids, Organic, N.O.S. (contains jelled Ethanol)
CAS number	64-14-5
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.
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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)
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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	<3.0	Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336	
Denatonium Benzoate	3734-33-6	223-095-2		<0.2%		

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.

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

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

8.1. Control parameters DNEL/PNEC Values from REACH & the National OEL Values

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
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.

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: Oncorhynchus mykiss [static])
EC50 Daphnia 1	9268 – 14221 mg/l (Exposure time: 48 h – Species: Daphnia magna)
LC50 fish 2	> 100 mg/l (Exposure time: 96 h – Species: Pimephales promelas [static])
EC50 Daphnia 2	2 mg/l (Exposure time: 48 h – Species: Daphnia magna [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:
Other information:

No known ecological damage caused by this product.
Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

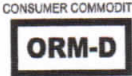


13.1. Waste treatment methods

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

	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	
			
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

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 mixtures Vendor SDS

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

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



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

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1/21/2016
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