

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1 Product identifier

Trade name : Blue Blaze Chafing Dish Fuel
 Synonyms : Art. 193310 72x tin 200gr
 Art. 193327 12x tin 200gr

1.2 Relevant identified uses and uses advised against

Relevant identified uses : Chafing dish fuel for professional use in chafing dish apparatus
 Uses advised against : This product should not be used, without asking advice from the supplier, for other applications than identified above.

1.3 Details of the supplier of the safety data sheet

Supplier : Blaze Products Corporation, P.O. Box 1409, Shelbyville, Kentucky
 40066-1409 USA

Importer : Hendi b.v., Steenoven 21, 3911 TX Rhenen, Nederland
 tel: +31 (0)317 681040 www.hendi.eu

1.4 Emergency telephone number

: NL NVIC Poison Centre: +31 (0)30 2748888 (only for medical personnel in case of acute or unintentional poisoning).

UK National Poisons Information Service: In an emergency, members of the public should always contact their general practitioners, NHS 24 (Scotland) or NHS 111 (England and Wales) or local A&E department. Members of the public seeking specific information on poisons in the Republic of Ireland can contact the National Poisons Information Centre on 01 809 2166.

SECTION 2. HAZARDS IDENTIFICATION
2.1 Classification of the substance or mixture

EC Index number : 200-578-6
 CLP Regulation (EC 2016/918) : Flam. Sol.1 (H228) & Eye Irrit. 2 (H319)
 Flammable solid.
 Causes serious eye irritation.

2.2 Label elements

CLP Regulation (EC 2016/918)
 Pictogram(s) : GHS02 & GHS07



Signal word : Danger

Hazard statement(s) : H228 Flammable solid.
 H319 Causes serious eye irritation.

Precautionary statement(s) : P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P403+233 Store in a well ventilated place. Keep container tightly closed.
 P235 Keep cool.

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.

2.3 Other hazards

- : P103 Read label before use.
- 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.

Before refilling, tin should be cooled down completely and washed thoroughly.

Only use in combination with fuel can holder.

Remove label of tin before use.

Do not move if ignited.

Use only under supervision and on a heat resistant surface.

If chafing dish fuel is used carefully there are no direct other hazards.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: not relevant

3.2 Mixture: a solid jelled ethanol

Chemical name	CAS number	EC number	Registration number	% (v/v)	Hazard statements (CLP 1272/2008)
Ethanol	64-17-5	200-578-6	01-2119457610-43-0433	<70.0	Flam. Liq. 2 (H225), Eye Irrit. 2 (H319)
Methanol	67-56-1	200-659-6	-	trace	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%
Acetone	67-64-1	200-622-2	-	trace	Flam. Liq. 2 (H225), Eye Irrit. 2 (H319), STOT SE 3 (H336)
Denatonium benzoate (Bitrex)	3734-33-6	223-095-2	-	trace	Acute Tox. 4 (H302), Skin Irrit. 2 (H315), Eye irrit. 2 (H319), STOT SE 3 (H335)

The full text of each relevant hazard statement is listed in Section 16.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

- | | |
|--------------------------|--|
| <p>General</p> | <p>: When any doubt always seek medical attention and show container or label.</p> |
| <p>Inhalation</p> | <p>: Fresh air, half-seated position, rest, if necessary consult a physician</p> |
| <p>Contact with skin</p> | <p>: Remove contaminated clothing and thoroughly wash skin with water and soap. In case of persisting irritation consult a physician. Launder contaminated clothing before re-use.</p> |
| <p>Contact with eyes</p> | <p>: Protect non-irritated eye and if possible remove contact lenses. Wash out with lukewarm water for at least 15 minutes. Avoid powerful water stream, risk of cornea damage. In case of persisting irritation consult a physician.</p> |
| <p>Ingestion</p> | <p>: Ingestion almost impossible because of the presence of the component Bitrex If victim is conscious, give two glasses of water. Do not induce vomiting. Seek medical attention immediately and show the container or label. Never give anything by mouth to an unconscious person.</p> |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|-------------------|--|
| Inhalation | : Excessive inhalation of vapors can cause nasal and respiratory irritation. |
| Contact with skin | : Prolonged or repeated contact can cause moderate irritation, defatting and dermatitis. |
| Contact with eyes | : Can cause severe irritation, redness, tearing. |
| Ingestion | : Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

4.3 Indication of any immediate medical attention and special treatment needed

- Physician makes a decision regarding further medical treatment after thoroughly examination of the injured.
Symptomatic treatment.

SECTION 5. FIREFIGHTING MEASURES
5.1 Extinguishing media

- | | |
|--------------------------------|---|
| Suitable extinguishing media | : Fire-extinguishing powder, carbon dioxide, water spray, alcohol-resistant foam. |
| Unsuitable extinguishing media | : High pressure stream of water – risk of expansion of the fire. |

5.2 Special hazards arising from the substance or mixture

- : During the fire, the product may produce hazardous fumes containing carbon monoxide, carbon dioxide. Do not inhale combustion products, they can be dangerous for human health. Closed cans that are exposed to flame and heat may erupt scattering burning fragments.

5.3 Advice for firefighters

- : Highly flammable liquid and vapors. Product's vapors can create explosive mixtures with air. Product vapors are heavier than air and accumulate in the lower parts of the premises. Cool down containers at a safe distance with water spray to prevent bursting. Use personal protection typical in case of fire. Self-contained breathing apparatus and protective clothing should be worn in the fire zone and also when cleaning immediately after a fire in a closed or poorly ventilated area.

SECTION 6. ACCIDENTAL RELEASE MEASURES
6.1 Personal precautions, protective equipment & emergency procedures:

- Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Ensure that removing the problem and its results is conducted by a trained personnel only. In case of large spills, isolate the exposed area. Be aware of fire and explosion. Remove all sources all open fires and ignition sources. Ventilate the area. No smoking. Warning, there is a risk of slipping on spilled product.

6.2 Environmental precautions

- : In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services

6.3 Methods and material for containment and cleaning up

- : Collect with incombustible, liquid-binding material (e.g. sand, soil, universal binding agent, silica, etc.) and place it in labelled (plastic) containers. Collected material treat as waste. Clean the contaminated place. Apply adequate ventilation and use sparkle- and explosion safe tools.

6.4 Reference to other sections

- : For personal protection - section 8. Disposal - section 13

SECTION 7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling** : Handle in accordance with good occupational hygiene and safety practices. Avoid contact with skin and eyes. Before break and after work carefully wash hands. Keep containers tightly closed after use. Keep in well-ventilated place. Keep away from the heat, fire and other ignition sources. Do not smoke.
- 7.2 Conditions for safe storage** : Keep only in fire- and explosion-safe, dry, cool places with good ventilation and in tightly closed packing. Keep away from food, beverages or animal food. Keep away from heat, sparks, open flame, hot surfaces and direct sunlight. No smoking. Storage apart from oxidizing substances.
- 7.3 Specific end use(s)** : Chafing dish fuel only for professional use in chafing dish apparatus.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
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) (Netherlands 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 control procedures:

Procedures concerning the control over the dangerous components concentrations in the air and control over the air quality in the workplace should be applied – if they are available and justified for the position – in accordance with the current national and European Standards.

Biological limits : 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, sea water) = 0.79 mg/l
- PNEC (intermittent release) = 2,75 mg/l
- PNEC (purification facility) = 580 mg/l
- PNEC (sediment, fresh water) = 3,6 mg/l
- PNEC (sediment, sea water) = 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, sea water) = 2,08 mg/l
- PNEC (intermittent release) = 1540 mg/l
- PNEC (purification facility) = 100 mg/l
- PNEC (sediment, fresh water) = 77 mg/l
- PNEC (sediment, sea water) = 7,7 mg/l
- PNEC (soil) = 3,18 mg/kg dry weight

8.2 Exposure controls

Individual protection measures, such as personal protective equipment

- a) Eye / face protection : Goggles. If used as intended, not applicable.
- b) Skin / hand protection : If used as intended, not applicable. After use, clean up spilled parts and clean hands immediately with water and soap. Do not use gloves because of the risk of remaining spilled parts on the gloves.
- c) Respiratory protection : If used as intended, not applicable. At high concentrations of vapors of in case of sudden incidents, use half masks / masks with organic vapors absorber.
- d) Other : Work in accordance with the principles of safety and hygiene. During operation, do not eat, drink or smoke. Avoid contact with skin and eyes. Ensure good general and/or local ventilation at work stations to ensure the maintenance of concentrations of hazardous components in the atmosphere below the exposure limit values.

Personal protective equipment should be selected based to activities carried out, the associated risks must be approved by a specialist before handling the product.

Environmental exposure controls : Do not allow the large quantity of mixture to contaminate surface water, ground water, sewage system or soil.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties

Appearance	: solid gel, pink-red
Odour	: alcoholic
Odour threshold	: not applicable
pH	: not applicable
Freezing point	: not applicable
Boiling point	: 77°C (170.6°F)
Flash point	: tag closed 12,2°C (54°F)
Flammability	: flammable
Auto flammability	: 452°C (845.6°F)
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 (H2O=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 further research data available.

SECTION 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.
- 10.5 Incompatible materials** : Strong oxidants.
- 10.6 Hazardous decomposition products:** None known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- Acute toxicity** : LC₅₀ inhalation rat (mg/l) 127.7 mg/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.
- Eye damage/irritation** : Can cause severe irritation, redness and tearing.
- Sensitisation** : Based on available data, the classification criteria are not met.
- Repeated dose toxicity** : Based on available data, the classification criteria are not met.
- Carcinogenicity** : Based on available data, the classification criteria are not met.
- Mutagenicity** : Based on available data, the classification criteria are not met.
- Toxicity for reproduction** : 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.

- 11.2 Other information** : Information regarding acute and/or delayed results of the exposure was defined on the basis of the information on product's classification and/or toxicological studies as well as the experience and knowledge of the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity 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])

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

- 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 Results of PBT & vPvB assessment: Not applicable.
12.6 Other adverse effects : Product does not contribute to ozone depletion or global warming.

SECTION 13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods** : For the product: the waste should be disposed in authorized incinerations or waste treatment/ disposal plant, in accordance with the local legislation. Residues store in original containers.
For used packaging: recycling, liquidation of empty containers dispose in accordance with the local legislation. Only containers completely emptied can be recycled.
- 13.2 Other information** : Take note of framework waste Directive (2008/98/EC) and Directive on packaging and packaging waste (94/62/EC)

SECTION 14. TRANSPORT INFORMATION

- 14.1 UN Number:**
ADR/RID/ADN/IMDG
UN 1325
- 14.2 UN proper shipping name:**
ADR/RID/ADN/IMDG
FLAMMABLE SOLID, ORGANIC, N.O.S. (ETHANOL)
- 14.3 Transport hazard class(es):**
4.1
- 14.4 Packing group:**
II
- 14.5 Environmental hazards:**
According to transport regulations, product is not dangerous for the environment.
- 14.6 Special precautions for user:**



Other information ADR: Limited quantity 1 kg
Tunnel restriction code: (E), flashpoint 12,2 °C

Shippers of dangerous goods packed in limited quantities shall prior to the transport, inform the carrier provably the total gross mass of such goods.

If there is more than 8000 kg gross limited quantities, you should take into account the applicable ADR regulations, transport dangerous goods by road. See ADR handbook 3.4.13 - 3.4.14 - 3.4.15

- 14.7 Transport in bulk according to Annex II of Marpol and the IBC code:**
Not applicable.

SECTION 15. REGULATORY INFORMATION
15.1 Safety, health and environmental regulations/legislation (EC)

REACH (EC 1907/2006)

- a) Substance of potential concern (Art.59) : Components are not included as substance of potential concern.
- b) Authorisation (Title VII) : Components are not included on authorisation list.
- c) Restrictions (Title VIII) : Components are not included on list of restrictions.

Other legislation (EC) : See section 13.

National laws : See section 8.

- 15.2 Chemical safety assessment** : No chemical safety assessment has been carried out by the supplier of the mixture.

SECTION 16. OTHER INFORMATION
16.1 Revision comments

A vertical line in the left margin indicates that there is a relevant amendment from the previous version.

16.2 Abbreviations and acronyms used in the safety data sheet

 Hazard statements (Section 3) : H225 = Highly flammable liquid and vapour.
 H301 = Toxic if swallowed.
 H302 = Harmful if swallowed.
 H311 = Toxic in contact with skin.
 H315 = Causes skin irritation.
 H319 = Causes serious eye irritation.
 H331 = Toxic if inhaled.
 H335 = May cause respiratory irritation.
 H336 = May cause drowsiness or dizziness.
 H370 = Causes damage to organs.
 H371 = May cause damage to organs.

 Control parameters (Section 8) : DNEL= 'Derived No-Effect Level'
 OEL= 'Occupational Exposure Limit'
 PNEC= 'Predicted No-Effect Concentration'

 Toxicological information (Section 11) : LC50= Lethal Concentration 50%
 Ecological information (Section 12) : EC50= Effect Concentration 50%

 Transport information (Section 14) : ADN = European Agreement concerning the international carriage of dangerous goods by inland waterways.
 ADR = European Agreement concerning the international carriage of dangerous goods by road.
 IMDG = International Maritime Dangerous Goods code
 RID = International Regulations governing the carriage of dangerous goods by rail.
 N.O.S. = Not otherwise specified.

- 16.3 References and sources for data** : Safety data sheet manufacturer
 ECHA dissemination database
 SER limits database

Safety data sheet	Page: 9 of 9
	Issue date: 14-11-2017
Blue Blaze Chafing Dish Fuel Ethanol UN 1325	Revision date: 24-05-2018
	According: (EC) 2015/830 of 28 May 2015 amending Regulation (EC) 1907/2006

16.4 Other information and disclaimer

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training. Persons related to the transportation of the dangerous goods in compliance with the ADR Agreement should be properly trained within the scope of performed tasks (general training, on-the-job training and training related to the safety issues).

All information given in this Safety Data Sheet is exclusively related to the product described and is provided assuming that the product will be used in a way and for the purposes as stated by the manufacturer. The information is based on our present state of knowledge and will be reviewed regularly. This Safety Data Sheet has only been set up with the intention to describe the safety aspects of the product and therefore should not be construed as guaranteeing specific properties of the product of concern or its suitability for a particular application. It is the user's own responsibility to take the precautionary measures described and also to take care that this information is complete and adequate for the use of this product. It is recommended to pass through the information in this Safety Data Sheet, whenever necessary in an adapted form, to all staff and interested parties of concern.

- *Changes, printing and typesetting errors reserved.*