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	LIQUID BLAZE WICK CHAFING DISH FUEL
Synonym(s)	2,2-Oxydienthanol, Diethylene Glycol (Chemical family: Glycol)
CAS number	111-46-6
EC number	203-872-2
Index number	603-140-00-6
Reach Registration #	*In- Process*
Contact	Eco Mundo: +33-1-8364-2054

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

Applications	This product is used for warming foods, sauces and beverages. It should be used in chafing dishes only. 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 1-703-527-3887 Eco Mundo: +33-1-8364-2054

1.4. Emergency telephone number

Telephone	USA: 24 hr Emergency Assistance: 1-800-424-9300 day or night Outside the continental United States: 1-703-527-3887 (collect calls accepted). (CHEMTREC) 1-202-483-7616 (Other Countries)

2. HAZARDS IDENTIFICATION

2.1.2. Classification of the mixture according to the regulation (EC) no. 1272/2008 (CLP)

Acute Tox. 4	H302 Harmful if swallowed.

STOT RE 2	*H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral*

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

Hazard pictograms

GHS07

GHS08

Signal word	Warning
Hazard statements	H302 Harmful if swallowed. *H315 Causes skin irritation.* *H320 Causes eye irritation.* H373 May cause damage to organs by prolonged or repeated exposure if swallowed.
Precautionary statements – Prevention	P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
Precautionary statements – Response	P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, continue rinsing. P337 + P313 If eye irritation persist get medical attention.
Precautionary statements – Storage	P403 + P235 Store in a well ventilated place. Keep cool.
Precautionary statements – Disposal	P501 Dispose of contents/container in accordance with local and national regulations.

NFPA Ratings (scale 0 – 4)

Health = 1, Fire = 1, Reactivity = 0

GHS1 = severe hazard, 4 = slight hazard

GHS Classification
Acute Toxicity (oral) Category 4
Serious Eye Damage/Eye Irritation – Category 2B
Specific Target Organ Toxicity (Single Exposure) Category 2
Specific Target Organ Toxicity (Repeated Exposure) Category 2

2.3. Other hazards

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS-Nr.	EC-Nr.	Index-Nr.	[%]	Classification CLP	Specific concentrations limit
Diethylene Glycol	111-46-6	203-872-2	603-140-00-6	> 99-100%	Acute Tox. 4; H302 *STOT RE 2; H373*	-

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 product is ingested, do not induce vomiting. Dilute swallowed material by drinking water, rinse mouth with water and contact a physician or Poison Control Center: 1-800-222-1222.

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

See 4.1

Eye contact: causes eye irritation.
Inhalation: No known significant effects or critical hazards.
Skin contact: No known significant effects or critical hazards.
Ingestion: Harmful if swallowed. Maybe irritating to mouth, throat, & stomach.

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

Treat symptomatically

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media — Use dry chemical, “alcohol foam” or carbon dioxide; water or foam may cause frothing. Use carbon dioxide or dry chemical for small fires; “alcohol resistant foam” or water fog for large fires. Do not use water in a jet.

5.2. Special hazards arising from the substance or mixture — Material will not burn unless preheated. Carbon monoxide may be evolved if incomplete combustion occurs. Containers exposed to intense heat from fires should be cooled with large quantities of water.

5.3. Advice for fire-fighters Wear self-contained breathing apparatus (SCBA) and complete personal protective equipment. Dilution of burning liquid with water will reduce intensity of flames. A solid stream of water directed into hot, burning liquid could cause frothing.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures Keep away from fire and other ignition sources. Ventilate the area. Wear suitable protective clothing.

6.2. Environmental precautions Keep spilled material away from sewage/ drainage systems and waterways. See section 15.

6.3. Methods and material for containment and cleaning up Absorb spilled material using paper, floor absorbents, or other absorbent material. *Place* waste and absorbent material in appropriate waste containers.

6.4. Reference to other sections See precautions in section 7 and 8.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling Keep away from fire and other ignition sources. Ventilate the area. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities Keep container tightly closed and store in a cool, well-ventilated place. Avoidance of contact with incompatible materials such as strong oxidizing agents, strong acids, strong bases.

7.3. Specific end use(s) None

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters Threshold limit value:

DNELs

Dermal	DNEL/Cons/LSE	53 mg/kg bw/day (mammalian)
	DNEL/In/LSE	106 mg/kg bw/day (mammalian)
Inhalative	DNEL/Cons/LLE	12 mg/m_3 (mammalian)
	DNEL/In/LLE	60 mg/m_3 (mammalian)

PNECs

PNEC	1.53 mg/kg (soil)
	199.5 mg/l (sewage treatment plant)
PNEC/Aq	10 mg/l (fresh water)
	10 mg/l (intermittent release)
	1 mg/l (marine water)
PNEC/sed	20.9 mg/kg (fresh water)
	dryweight (dw)

8.2. Exposure controls

Respiratory protection: Not required under normal conditions of use.

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

Eye protection: Not requires under normal conditions of use.

Body protection: Not required under normal conditions of use.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information of basic physical and chemical properties

Physical state	Liquid
Colour	Colourless
Odour	Mild sweet odor
Odour threshold	Not Applicable
pH	7
Freezing point	-6.5 º C (20.3 º F)
Boiling point	245º C (473º F)
Flash point	280° F (138° C) ASTM D-56 (Tag Closed Cup)
Flammability	Not classified as Flammable, but will burn. Combustible.
Auto flammability	444° F (NFPA)
Upper/lower flammability or explosive limits	Flammable limits in air, % by volume: LEL 1.7% UEL 12.3%
Explosive properties	No
Oxidizing properties	Not applicable.
Vapour pressure	0.008hPA (0.006 mmHg) at 77° F (25 º C)
% volatile by volume	98%
Vapour density (AIR=1)	3.66
Density	1.118g/cm3 at 68° F (20° C)

Specific gravity (H2O=1) at 80° F	1.118
Solubility in water	Miscible
Partition coefficient (n-octanol/water)	<1.98> (n-octanol-water)
Decomposition temperature	Not applicable.
Viscosity, Kinematic	30-32 mm 2/5 at 68°F (20°C)

9.2. Other information

NFPA (National Fire Protection Association) Rating : Heath (1) / Fire (1) / Reactivity (0)

10. STABILITY AND REACTIVITY

10.1 Stability:	Stable under recommended conditions.
10.2. Conditions to Avoid:	Keep away from heat, sparks and open flames. Not compatible with strong oxidizers, strong acids, and strong bases.
10.3. Hazardous Decomposition:	No data available.
10.4. Hazardous Polymerization:	Not expected to occur.

11. TOXICOLOGICAL INFORMATION

11.1 Product Summary	The below given information is based on the assessment of the product including impurities.
11.2 Information on likely routes of exposure	Exposure may occur via inhalation, ingestion, skin absorption, skin or eye contact, and accidental ingestion.

11.3 Acute oral toxicity

11.3 Acute oral toxicity	Classified Harmful if swallowed. May cause CNS effects, blood disturbances and damage to kidney and other organs. Death is generally due to renal failure. :LD50: 16,500 mg/kg Species: rat : Mean lethal dose (estimated) : 1,000 mg/kg Species; Humans

Acute Inhalation toxicity	: Based on acute toxicity values, not classified. May cause irritation of the mucous membranes. May cause central nervous system depression.
	: LC50: 5.08 mg/l Exposure time: 4 hours Species: rat
Acute dermal toxicity	: Based on acute toxicity values, not classified.
	: LD50: 12,500 mg/kg Species: rat
Skin corrosion/ irritation:	: Based on skin irritation values, not classified. May cause slight transient skin irritation.
Serious eye damage/eye irritation	: Based on eye irritation values, not classified. May cause slight transient eye irritation.
Respiratory or skin sensitization	: Not classified No adverse effect observed.

Chronic toxicity

	Not classified
Carcinogenicity:	Contains a substance that has a positive carcinogenicity study. The weight of evidence for the carcinogenicity of this substance does not meet the criteria for classification.
Germ cell mutagenicity:	Not classified No adverse effect observed.

Reproductive toxicity

Effects on fertility / Effects on or via lactation :	Not classified May cause toxicity to reproduction at high oral doses.
Effects on Development:	Not classified May be toxic to embryo/fetal development and teratogenic at high exposure levels.
Target Organ Systemic: Toxicant – Single exposure	Routes of exposure: Ingestion Target Organs: Central nervous system, Kidney Causes damage to organs. May cause CNS effects, blood disturbances and damage to kidney and other organs.
Target Organ Systemic: Toxicant- Repeated Exposure	Routes of exposure: Ingestion Target Organs: Kidney May cause damage to organs through prolonged or repeated exposure. Kidney and bladder effects due to the formation of oxalate crystals may occur following prolonged exposure to high oral doses.
Aspiration hazard:	Based on physico-chemical values or lack of human evidence, not classified.

12. ECOLOGICAL INFORMATION

Ecotoxicology Assessment

Acute aquatic toxicity:	Based on acute aquatic toxicity values, not classified.
Chronic aquatic toxicity:	Not classified, based on readily biodegradability and low acute toxicity.
Toxicity to fish:	Acute toxicity to fish is very low.
Toxicity to daphnia and Other aquatic invertebrates:	Acute toxicity to freshwater and marine invertebrates is very low.
Toxicity to algae:	Low toxicity to algae.
Toxicity to bacteria:	Low toxicity to sewage microbes.
Toxicity to fish (Chronic Toxicity):	Chronic toxicity to fish is expected to be low.
Toxicity to daphnia and Other aquatic invertebrates (Chronic toxicity):	Chronic toxicity expected to be low.

Persistence and degradability

Biodegradabilty:	Inherently biodegradable. 45 – 100% (After 28 days in a ready biodegradability test)

Bioaccumulative potential

Bioaccumulation:	This material is not expected to bioaccumulate. Species: Leuciscus idus (Golden orfe) Bioconcentration factor (BCF): 100

Mobility in soil

Distribution among Environmental Compartments:	Stability in soil Low potential for soil adsorption expected (QSAR calculated value) Stability in water Not expected to hydrolyze readily.

Results of PBT and vPvB assessment

Not applicable.

Other adverse effects

Additional ecological: information	No additional information available.

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

DOT Classification -- Not regulated
TDG Classification -- Not regulated
IMDG Classification -- Not regulated
IATA Classification -- Not regulated

15. REGULATORY INFORMATION

U.S. Superfund Amendments & Reauthoriztion Act (SARA) 355 (Extremely Hazardous Substances):
Substance is not listed.

U.S. Superfund Amendments & reauthorization Act (SARA) 313 (Specific Toxic Chemical Listings):
Substance is not listed.

U.S. Toxic Substances Control Act (TSCA):
Substance is listed.

California Proposition 65 Carcinogens:
Substance is not listed.

Canadian Domestic Substances List (DSL):
Substance is listed.

Canadian Ingredient Disclosure List (limit 0.1%)
Substance is not listed.

Canadian Ingredient Disclosure List (limit 1%):
Substance is not listed.

Hazard Pictograms

GHS07 GHS08

Signal word:	WARNING
Hazard Statements:	H302: Harmful if swallowed. H315: Causes mild skin irritation. H320: Causes eye irritation. H373: May cause damage to organs by prolonged or repeated exposure if swallowed.
Precautionary Statements	P264 Wash hands thoroughly after handling. *P270 Do not eat, drink or smoke when using this product.* P301 + P3*12* IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, continue rinsing. P337 + P313 If eye irritation persist get medical attention. *P403 + P235 Store in a well ventilated place. Keep cool.* P501: Dispose of contents/ container in accordance with local and national regulations.

NFPA 704 Information:

Health Rating:	1
Flammability Rating:	1
Reactivity Rating:	0
Other Hazards:	Not applicable

U.S. Federal Regulatory Information:

TSCA 8(b) inventory:	All components are listed or exempted.
TSCA 5(a) 2 final: Significant new use rule (SNUR)	No ingredients listed.
TSCA 5(e) substance consent order:	No ingredients listed.
TSCA 12 (b) export notification:	No ingredients listed.
CERCLA RQ:	None
SARA Title III § 311/312:	Immediate (Acute) health Hazard, Delayed (chronic) health hazard.
Clean Air Act – Ozone Depleting Substances (ODS):	This product does not contain nor is it manufactured with ozone depleting substances.
SARA Title III § 313:	No ingredients listed
CERCLA Hazardous substances:	No ingredients listed.

State Regulations

Pennsylvania – RTK:	Diethylene glycol
California Prop 65:	This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Canadian regulations:

CEPA DSL:	All components are listed or exempted.
WHMIS Classes:	Class D-1B: Material causing immediate and serious toxic effects (Toxic).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Brazil Regulations

Classification system used	Norma ABNT-NBR 14725-2:2012
International lists:	Australia Inventory (AICS): All components are listed or exempted. China Inventory (IECSC): All components are listed or exempted. Japan Inventory: All components are listed or exempted. Korea Inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted. Philippines Inventory (PICCS): All components are listed or Exempted. Taiwan Inventory (CSNN): Not determined. European Union Regulatory Information: All components are listed or exempted. EINECS Number: 203-872-2 Index Number: 603-140-00-6

16. OTHER INFORMATION

16.1. Indications on the revision SDS revised on 12/07/2015: Addition of all fields as required by regulations 1907/2006/EC and 453/2010/EC.
SDS revised on 12/07/2015 GHS Format.
SDS revised on 1/16/18 correct Hazardous & Preventive statement codes based on CLP.

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

CLP: Classification, Labeling and Packaging

DOT: US Department of Transportation (USA)

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 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. Advice on any training appropriate for workers Good hygiene practices.

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.
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