



SAFETY DATA SHEET

EASY HEAT®, XTREME HEAT®, HOT5™, & BUFFET HEAT™

HOLLOWICK WICKED CHAFING FUELS

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY UNDERTAKING

Product identifier

Product names EASY HEAT® XTREME HEAT®, HOT5™, & BUFFET HEAT™
HOLLOWICK WICKED CHAFING FUELS

Chemical name Diethylene glycol; 2,2'-oxybisethanol

CAS number 111-46-6

EC number 203-872-2

Relevant identified uses of the substance and uses advised against

Applications A liquid chafing fuel.
The fuel, Diethylene Glycol, is delivered via a wick protruding from a closed metal can. The product's wick is ignited and burned to provide heat for food warming applications.

Details of the supplier of the safety data sheet

Name Hollowick Inc
Address 100 Fairgrounds Drive Manlius, NY 13104
Telephone 1-800-367-3015
Fax 1-315-682-6948
Contact email info@hollowick.com

Emergency telephone number

Telephone US, Canada, Puerto Rico and the Virgin Islands: 24 hours-a-day, 7 days-a-week 1-800-424-9300 (CHEMTREC)
Outside US: 24 hours-a-day, 7 days-a-week 1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity, Oral	Category 4
Specific target organ systemic toxicity – single exposure, Oral, Central nervous system, Kidney	Category 1
Specific target organ systemic toxicity – repeated exposure, Oral, Kidney	Category 2

GHS Classification Scale (1= severe hazard; 4= slight hazard)

Label elements

Hazard Symbols



Signal word	Danger
Hazard statements	H302 Harmful if swallowed. H370 Causes damage to organs (Central nervous system, Kidney). H373 May cause damage to organs (Kidney) through prolonged or repeated exposure.
Precautionary statements – Prevention	P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling.
Precautionary statements – Response	P270 Do not eat, drink or smoke when using this product. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. P330 Rinse mouth.
Precautionary statements – Storage	P405 Store locked up.



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Precautionary
statements – Disposal
Other hazards

P501 Dispose of contents/ container to an approved waste disposal plant.
- No additional information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight %
Diethylene Glycol	111-46-6	99.0 - 100.0 %

4. FIRST AID MEASURES

Description of first aid measures

General advice	Avoid contact with eyes and skin. Keep out of reach of children. Immediate medical attention is required. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
Following eye contact	Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately if irritation persists.
Following skin contact	Immediately flush with water. Remove wet clothes. Wash with soap and water. Obtain medical attention if irritation persists.
Following inhalation	Remove affected person to fresh air. If person is not breathing, call an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Following ingestion	If swallowed, give one or two glasses of water. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms are prostration, gasping, pallor, and uncoordinated movements.
Symptoms may include redness, oedema, drying, defatting and cracking of the skin.
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Symptoms may be delayed.
Overexposure is unlikely to aggravate existing medical conditions. Repeated excessive exposure may aggravate pre-existing liver and kidney disease.

5. FIREFIGHTING MEASURES

Extinguishing media	Suitable: Water spray. Carbon dioxide. Dry chemical. Foam. Unsuitable: Not available
Special hazards arising from the substance or mixture	Stop source of fuel. Shut off ignition sources. Keep exposed containers cool with water spray. Avoid breathing vapours. Hazardous combustion products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and /or irritating. May include and are not limited to oxides of carbon.
Advice for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and
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Environmental precautions	upwind of spill/leak. Remove all sources of ignition. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater, basements or confined areas.
Methods and material for containment and cleaning up	<u>For containment</u> Stop leak if you can do so without risk. <u>For cleaning up</u> Small spills can be soaked up with absorbent material, or flushed with water. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.
Reference to other sections	See precautions in section 7 and 8.

7. HANDLING AND STORAGE

Precautions for safe handling	HARMFUL OR FATAL IF SWALLOWED. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Spills of organic materials on hot fibrous insulations may lead to lowering of the auto-ignition temperatures possibly resulting in spontaneous combustion. Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing. Do not breathe fumes/vapour/spray. If ingested, seek medical advice immediately.
Conditions for safe storage, including any incompatibilities	Keep out of reach of children. Store in a closed container away from incompatible materials. RECAP containers when not in use. Do not store near heat, or open flame. Do not store near food, foodstuffs, drugs or potable water supplies.
Specific end use(s)	Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limit values

Component	List	Type	Value
Diethylene glycol	WEEL	TWA	10 mg/m ³

Exposure controls

Appropriate engineering controls	Provide adequate ventilation in area of use. Do NOT use this product in an enclosed or poorly ventilated area (ie: tents, pantry or closet). Open a door or window to provide adequate ventilation. Recap containers when not in use. Do not store near heat, or open flame.
Personal protection	<u>Respiratory protection</u> : Avoid breathing mists or vapours. <u>Hand protection</u> : Helpful in avoiding unnecessary contact. <u>Eye protection</u> : Not normally required when used as directed. <u>Body protection</u> : As required by employer code. <u>Hygiene measures</u> : Avoid contact with skin and eyes. Under normal conditions of product use, no special protection for eyes/skin is required. Remove contaminated clothing; launder or dry-clean before reuse. Minimize breathing vapour or mist. Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.
Environmental exposure controls	Not available



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9. PHYSICAL AND CHEMICAL PROPERTIES

Information of basic physical and chemical properties

Physical state	Liquid
Color	Colorless
Odor	Odorless
Odour threshold	Not available
pH	Not available
Melting point	-9 °C (15.80 °F)
Boiling point	245 °C (473.00 °F)
Flash point	Closed cup: 138°C (280°F)
Evaporation rate	Not available
Flammability	Not available
Auto ignition temperature	224 °C (435.20 °F)
Upper/lower flammability or explosive limits	Lower limit, by volume: 2% Calculated Upper limit, by volume: 12.3% Estimated
Explosive properties	Not available
Oxidising properties	Not available
Vapour pressure	< 0.01 mmHg at 20°C
Vapour density	3.66 (Air = 1)
Relative density	9.3 lbs./gallon
Solubility in water	Easily soluble in the following materials: cold water.
Other Solvents	Not available
Partition coefficient (n-octanol/water)	Log Pow 1.47-1.98
Decomposition temperature	Not available
Viscosity, Kinematic	30 – 32 mm ² /s at 68°F (20°C)

Other information

Specific gravity : 1.1 (H₂O = 1)

10. STABILITY AND REACTIVITY

Reactivity	Not determined
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Conditions to avoid	Do not mix with other chemicals. Avoid contact with strong oxidizers. Exposure to elevated temperatures can cause product to decompose. Generation of gas during decomposition can cause pressure in closed systems.
Incompatible materials	Strong oxidizers. Acids. Bases.
Hazardous decomposition materials	May include and are not limited to: oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Product Summary	The below given information is based on the assessment of the product including impurities
Acute toxicity	
Acute oral toxicity	Classified Harmful if swallowed. May cause CNS effects, blood disturbances and damage to kidney and other organs.



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Acute inhalation toxicity	Death is generally due to renal failure LD50: 16,500 mg/kg Species: rat Mean lethal dose (estimated): 1,000 mg/kg Species: Humans Based on acute toxicity values, not classified. May cause irritation of the mucous membranes. May cause central nervous system depression
Acute dermal toxicity	LC50: > 5.08 mg/l Exposure time: 4 HOURS Species: rat Based on acute toxicity values, not classified.
Skin corrosion/irritation	: LD50: 12,500 mg/kg Species: rat : 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
Chronic toxicity	
Carcinogenicity	Not classified 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



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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	Chronic toxicity expected to be low.
Persistence and degradability	
Biodegradability	Inherently biodegradable. : 45 - 100 % (After 28 days in a ready biodegradability test)
Bioaccumulative potential	
Bioaccumulation	This material is not expected to bioaccumulate
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

Waste treatment methods	Spilled material may be picked up with solid sorbent and incinerated according to national regulations. Empty containers may be disposed of as conventional waste in accordance with all national regulations. All notification, clean-up and disposal should be carried out in accordance with national regulations. Preferred methods of waste disposal are incineration or biological treatment in national approved facility.
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14. TRANSPORT INFORMATION

UN Number	-
UN proper shipping name	-
Transport hazard classes	-
Packing group	-
Environmental hazards	-
Land transport (ADR/RID)	Not regulated
Onland waterway craft (ADN/ADNR)	Not regulated
Marine transport (IMDG)	Not regulated
Air transport (IATA)	Not regulated
Special precautions for user	Not available
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not available

15. REGULATORY INFORMATION

If identified components of this product are listed under the TSCA 12(b) Export Notification rule, they will be listed below.

SARA 302/304	This product contains no known chemicals regulated under SARA 302/304.
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SARA 311/312

Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312:

Immediate (Acute) Health Hazard
Fire Hazard

SARA 313

This product contains no known chemicals regulated under SARA 313

State Reporting

This material is not known to contain a chemical substance known to the State of California to cause cancer, reproductive, or developmental toxicity under California Proposition 65.

This product contains no known chemicals regulated by New Jersey's Worker and Community Right to Know Act.

No components are subject to the Massachusetts Right to Know Act

This product contains the following chemicals regulated by Pennsylvania's Right to Know Act:

111-46-6 Diethylene Glycol

Other international regulations

Global Inventory Status

The ingredients of this product are compliant with the following chemical inventory requirements or exemptions. *Additional Explanatory Status Statements follow the table, as necessary

Country/Region	Inventory	Status Description
Australia	AICS	Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement
Japan	ENCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant

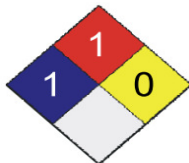
NFPA

Health: 1

Flammability: 1

Reactivity: 0

Specific hazard: -



16. OTHER INFORMATION

Indications on the revision

Date of Publication: June 1, 2015

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.