SAFETY DATA SHEET

1. Identification

Product identifier **Hollowick Wick Chafing Fuels**

Other means of identification

Synonyms Easy Heat®, Xtreme Heat®, Ready Heat Plus™, Ready Heat™ Buffet Heat™, Value Heat™ & Hot5™ Chafing Fuels

Recommended use 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.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Hollowick, Inc.

Address
100 Fairgrounds Dr.
P.O. Box 305
Manlius, NY, 13104
United States

Telephone
Phone: 315-682-2163
Phone: 800-367-3015 (Toll free)
Fax: 315-682-6948

E-mail info@hollowick.com

Emergency phone number
1-800-255-3924 (ChemTel)
1-813-248-0585 (ChemTel) (Outside US)

Supplier See above.

2. Hazard identification

Physical hazards Not classified.

Health hazards

Acute toxicity, oral	Category 4
Specific target organ toxicity, repeated exposure	Category 2

Environmental hazards Not classified.

WHMIS 2015 defined hazards Not classified

Label elements

Signal word Warning

Hazard statement Harmful if swallowed. May cause damage to organs (kidney) through prolonged or repeated exposure by ingestion.

Precautionary statement

Prevention Do not eat, drink or smoke when using this product. Do not breathe mist or vapor. Wash hands thoroughly after handling.

Response IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. Get medical attention if you feel unwell.

Storage Store locked up.

Disposal Dispose of container in accordance with local, regional, national and international regulations.

WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC) None known

WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC) None known

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None.

3. Composition/Information on ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Diethylene glycol		111-46-6	100

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

Ingestion IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

Most important symptoms/effects, acute and delayed Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

General information Get medical attention if symptoms occur. 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. Avoid contact with eyes and skin. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.

5. Fire-fighting measures

Suitable extinguishing media Water spray. Alcohol resistant foam. Powder. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media Not available.

Specific hazards arising from the chemical Stop source of fuel. Shut off ignition sources. Keep exposed containers cool with water spray. Avoid breathing vapors.

Special protective equipment and precautions for firefighters Firefighters should wear full protective clothing including self-contained breathing apparatus.

Fire-fighting equipment/instructions Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

Hazardous combustion products May include and are not limited to: Oxides of carbon.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Particular danger of slipping on leaked/spilled product. Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Methods and materials for containment and cleaning up Contain spilled material if possible. Collect in suitable and properly labeled containers. Small spills: Absorb with materials such as: Cat litter. Sand. Sawdust. Vermiculite. Zorb-all®. Hazorb®. Large spills: Dike area to contain spill. Pump into suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

Environmental precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

7. Handling and storage

Precautions for safe handling Avoid contact with eyes, skin and clothing. Do not breathe mist or vapor. Do not taste or swallow. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using do not eat or drink. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities Store in a closed container away from incompatible materials. Store away from incompatible materials (see Section 10 of the SDS). RECAP containers when not in use. Keep out of reach of children.

8. Exposure controls/Personal protection

Occupational exposure limits

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
Diethylene glycol (CAS 111-46-6)	TWA	10 mg/m3

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines Not applicable.

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Confirm with a reputable supplier first.

Other Use of an impervious apron is recommended. As required by employer code.

Respiratory protection Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards Not applicable.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. When using do not eat or drink.

9. Physical and chemical properties

Appearance Clear

Physical state Liquid.

Form Liquid.

Color Colorless

Odor Odorless

Odor threshold Not available.

pH Not available.

Melting point/freezing point 15.8 °F (-9 °C)

Initial boiling point and boiling range 473 °F (245 °C)

Pour point Not available.

Specific gravity 1.1 (H2O = 1)

Partition coefficient (n-octanol/water) Not available.

Flash point > 248.0 °F (> 120.0 °C) Pensky-Martens Closed Cup

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) 2

Flammability limit - upper (%) 12.3

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure <0.01 mmHg @ 20°C

Vapor density 3.66 (Air = 1)

Relative density 9.3 lb/gal

Solubility(ies) 100%

Auto-ignition temperature 435.2 °F (224 °C)

Decomposition temperature	Not available.
Viscosity	Viscous
Other information	
Density	9.3 lbs./gallon
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Strong oxidizers. Acids. Bases.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological information

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Information on likely routes of exposure	
Ingestion	Harmful if swallowed. May cause stomach distress, nausea or vomiting. May cause damage to organs by ingestion.
Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity If swallowed, diethylene glycol is more hazardous to humans than expected based on the current animal toxicity information.

Components	Species	Test Results
Diethylene glycol (CAS 111-46-6)		
Acute		
Dermal		
LD50	Rabbit	11890 mg/kg, HSDB
Inhalation		
LC50	Not available	
Oral		
LD50	Cat	3300 mg/kg, HSDB
	Dog	9000 mg/kg, HSDB
	Guinea pig	8700 mg/kg, HSDB
		14 g/kg, HSDB
	Human	1120 mg/kg, ECHA
		1000 mg/kg, SAX SDS
	Mouse	26500 mg/kg, HSDB
		23700 mg/kg, HSDB
		13.3 g/kg, HSDB
	Rabbit	26.9 g/kg, HSDB
	Rat	19600 mg/kg, ECHA
		16600 mg/kg, HSDB
		16500 mg/kg, ECHA
		15.6 g/kg, HSDB

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Exposure minutes	Not available.

Erythema value	Not available.
Oedema value	Not available.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Corneal opacity value	Not available.
Iris lesion value	Not available.
Conjunctival reddening value	Not available.
Conjunctival oedema value	Not available.
Recover days	Not available.
Respiratory or skin sensitization	
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Mutagenicity	Not classified.
Carcinogenicity	Not classified.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Reproductive toxicity	Not classified.
Teratogenicity	Non-hazardous by WHMIS/OSHA criteria.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	May cause damage to organs through prolonged or repeated exposure.

12. Ecological information

Ecotoxicity See below

Ecotoxicological data

Components		Species	Test Results
Diethylene glycol (CAS 111-46-6)			
Crustacea	EC50	Daphnia	84000 mg/L, 48 Hours
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	> 32000 mg/L, 96 hours

Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Mobility in general	Not available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

Transport of Dangerous Goods (TDG) Proof of Classification	Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions Not applicable

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical Yes

Classified hazard categories Acute toxicity (any route of exposure)
Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US state regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. See below

US - Louisiana Spill Reporting: Listed substance

Diethylene glycol (CAS 111-46-6) Listed.

US - Minnesota Haz Subs: Listed substance

Diethylene glycol (CAS 111-46-6) Listed.

US - Texas Effects Screening Levels: Listed substance

Diethylene glycol (CAS 111-46-6) Listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Diethylene glycol (CAS 111-46-6)

US. Rhode Island RTK

Diethylene glycol (CAS 111-46-6)

US. California Proposition 65

Not Listed.

Inventory status

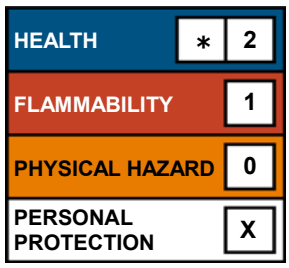
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

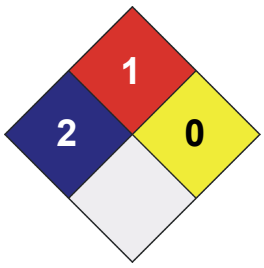
Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





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Further information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

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