SAFETY DATA SHEET
Version: 2.0 Date: 25.05.2018
ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830 (SDS)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	Oz Heat Original / Oz Heat Stem Wick / Oz Heat Screw Cap / Oz Heat Views / Oz Heat Prime Heat Pad Liquid Chafing Fuels
Alternative names	Liquid Wick Chafing Fuel
Product code(s)	Not applicable
Substance identity	Diethylene Glycol

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	The fuel, Diethylene Glycol, is held in a metal container and delivered via a fiberglass wick or cotton pad. The product is ignited and burned to provide heat for food warming applications.
Uses Advised Against	Anything other than the above.

1.3 Details of the supplier of the safety data sheet

Company Identification	TANGSHAN BURAK HOTEL SUPPLIES CO., LTD. Tangshan Burak Hotel Supplies Co. Ltd Xiaodaodi Village East, Chahe Town, Fengnan District Tangshan, Hebei, China. PC: 064002
Telephone	+86-315- 2346093
Fax	
E-Mail (competent person)	hankun@tangshanburak.com

1.4 Emergency telephone number

	+86 315 2346093 (0800 - 1700 GMT+8hrs)
Languages spoken	English spoken

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP)

Acute Tox. 4; H302

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name: Oz Heat / Just Heat / Prime Heat Liquid Chafing Fuel

Hazard Pictogram(s)

Signal Word(s): Warning

Hazard Statement(s):
H302: Harmful if swallowed.

Precautionary Statement(s):
P102: Keep out of reach of children.
P264: Wash hands and exposed skin thoroughly after handling.
P301+P312+P330: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P101: If medical advice is needed, have product container or label at hand.
P501: Dispose of this material and its container to hazardous or special waste collection point. Do not dispose of with household waste.

Supplemental information: None

2.3 Other hazards

None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical identity of the substance	CAS No.	EC No.	INDEX No.	REACH Registration No.
Diethylene glycol	111-46-6	203-872-2	603-140-00-6	01-2119457857-21-0134

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Self-protection of the first aider: Ensure adequate ventilation. Avoid breathing vapours. Wear suitable protective clothing and gloves. Contaminated clothing should be laundered before reuse.

Inhalation: IF INHALED: Keep patient at rest. Remove to fresh air immediately. Seekmedical attention if ill effects occur. If breathing is difficult, oxygen should be given by a trained person. If symptoms develop, obtain medical attention.

Skin Contact: IF ON SKIN (or hair): Wash with plenty of water. If irritation (redness, rash, blistering) develops, get medical attention. Remove contaminated clothing and wash clothing before reuse.

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion: IF SWALLOWED: Rinse mouth. Give 200-300mls (half pint) water to drink. Never give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed: Harmful if swallowed.

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

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media: In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing Media: None known. Direct water jet may spread the fire.

5.2 Special hazards arising from the substance or mixture: Not flammable. Toxic fumes may be produced in a fire. (Carbon monoxide, Carbon dioxide).

5.3 Advice for fire-fighters: Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Combustion may cause toxic fumes. Oxides of carbon, Hydrocarbons. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Caution - spillages may be slippery. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing vapours.

6.2 Environmental precautions: Do not allow to enter drains, sewers or watercourses.

6.3 Methods and material for containment and cleaning up: **Small spillages**: Absorb spillage in earth or sand. Transfer to a container for disposal or recovery. Use only non-sparking tools. Ventilate the area and wash spill site after material pick-up is complete. Do not dispose of with household

waste. Dispose of waste according to applicable legislation.

Large spillages: Contain spill and cover if possible to prevent spreading of spilled material and reduce dust. Dispose of wastes in an approved waste disposal facility.

6.4 Reference to other sections — See Section: 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling — Ensure adequate ventilation. Handle and open container with care. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.2 Conditions for safe storage, including any incompatibilities — Store in a cool/low-temperature, well-ventilated (dry) place. Store products enclosed, in original packing. Keep container tightly closed. Protect from light. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from food, drinks and animal food.

Storage temperature — Keep in a cool place. Recommended: 4 - 49°C

Storage life — Stable under normal conditions. Suitable materials: aluminum alloy, Stainless steel, High density polyethylene. Duration: 12 Months

Incompatible materials — Strong oxidising agents.

7.3 Specific end use(s) — See Section: 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Diethylene Glycol	111-46-6	23	101	-	-	WEL

Source: WEL: Workplace Exposure Limit (UK HSE EH40)

8.1.2 Biological limit value — Not established.

8.1.3 PNECs and DNELs — Not established.

8.2 Exposure controls

8.2.1 Appropriate engineering controls — Ensure adequate ventilation. No special requirements.

8.2.2 Individual protection measures, such as personal protective equipment (PPE) — Use personal protective equipment as required. Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier. Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing. Wash hands before eating, drinking or smoking.

Eye/face protection

Eye Protection: Not normally required.
Recommended: Wear suitable face shield.

Skin protection

Wear suitable gloves if prolonged skin contact is likely. Recommended: Wear impervious gloves (EN374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

		Wear suitable coveralls to prevent exposure to the skin.
	Respiratory protection 	Respiratory protection is not necessary if room is well ventilated. In case of inadequate ventilation wear respiratory protection. Recommended: EN149, EN143.
	Thermal hazards	Not applicable
8.2.3	**Environmental Exposure Controls**	Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Colourless liquid
Odour	Characteristic odour
Odour Threshold	Not determined
pH	6
Melting point/Range	- 6.5°C
Boiling Point	245.5°C
Flash Point	> 138°C [Closed cup]
Evaporation Rate	Not determined
Flammability (solid, gas)	Not applicable. Not flammable.
Flammable Limits	Not determined
Vapour pressure	0.008 hPa @ 25°C
Vapour density	Not determined
Relative density	1.12 g/cm³
Solubility(ies)	Immiscible with water.
Partition coefficient: n-octanol/water	- 1.98 @ 20°C
Auto-ignition temperature	372°C
Decomposition Temperature	Not determined
Viscosity	30 mPas @ 25°C
Explosive properties	Non-explosive
Oxidising properties	Not oxidising.

9.2 Other information Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1	**Reactivity**	Stable under normal conditions.
10.2	**Chemical stability**	Stable under normal conditions.
10.3	**Possibility of hazardous reactions**	Reacts violently with oxidizing substances.
10.4	**Conditions to avoid**	Avoid prolonged storage at elevated temperature. Keep away from heat, sources of ignition and direct sunlight.
10.5	**Incompatible materials**	Strong oxidising agents.
10.6	**Hazardous decomposition product(s)**	Combustion may cause toxic fumes. Oxides of carbon, Hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Acute Tox. 4; H302: Harmful if swallowed. LD50 (oral,rat) mg/kg: 500 (Acute Toxicity Estimate Mixture Calculation).
Acute toxicity - Inhalation	Based upon the available data, the classification criteria are not met. No data
Acute toxicity - Skin Contact	Based upon the available data, the classification criteria are not met. LD50 (skin,rabbit) mg/kg: 13300 mg/kg bw/day (Unnamed, 1978)
Skin corrosion/irritation	Based upon the available data, the classification criteria are not met. Weight of evidence approach (OECD 439)

Serious eye damage/irritation	Based upon the available data, the classification criteria are not met. Not irritating to eyes (rabbit) (Carpenter, 1946)
Respiratory or skin sensitization	Based upon the available data, the classification criteria are not met. No data
Germ cell mutagenicity	Based upon the available data, the classification criteria are not met. In vitro: Negative (OECD 471) In vivo: Negative (mouse) (OECD 474)
Carcinogenicity	Based upon the available data, the classification criteria are not met. NOAEL (rat) mg/kg bw/day 1160. No effects observed (Hiasa, 1990)
Reproductive toxicity	Based upon the available data, the classification criteria are not met. Reproductive toxicity: NOAEL (mouse) mg/kg bw/day 3060 (Unnamed, 1984) Developmental toxicity: NOEL (rat) ml/kg bw/Day 1 (OECD 414)
STOT - single exposure	Based upon the available data, the classification criteria are not met. No adverse effects observed on general toxicity endpoints
STOT - repeated exposure	Based upon the available data, the classification criteria are not met. Oral: NOAEL (rat) mg/kg bw/day 300. Available hazard data do not provide quantitative dose-response information (Unnamed, 1976) Inhalation: No data Dermal: NOAEL (Dog) mg/kg bw/day 2220. Kidney effects were observed at this dose: >8000 mg/kg (OECD 410)
Aspiration hazard	Based upon the available data, the classification criteria are not met. No data

11.2 Other information None

SECTION 12: ECOLOGICAL INFORMATION

12.1	**Toxicity**	Based upon the available data, the classification criteria are not met. LC50 (fish) mg/l: 75200 (96 hour) (Geiger, 1990) Read across: CAS No. 107-21-1. NOEC (Fish) mg/l: 15380 (7 Day) (Unnamed, 1985)
12.2	**Persistence and degradability**	Readily biodegradable.
12.3	**Bioaccumulative potential**	Bioconcentration factor (BCF) : -1.5 log Kow.
12.4	**Mobility in soil**	Not determined.
12.5	**Results of PBT and VPVB assessment**	Not classified as PBT or vPvB.
12.6	**Other adverse effects**	None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**	Dispose of this material and its container as hazardous waste. Dispose of empty containers and wastes safely. Dispose of contents in accordance with local, state or national legislation.
13.2	**Additional Information**	None

SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

		ADR/RID	**IMDG**	**ICAO/IATA**
14.1	**UN number**	Not classified	Not classified	Not classified
14.2	**UN Proper Shipping Name**	Not classified	Not classified	Not classified
14.3	**Transport hazard class(es)**	Not classified	Not classified	Not classified
14.4	**Packing Group**	Not classified	Not classified	Not classified
14.5	**Environmental hazards**	Not classified	Not classified as a Marine Pollutant.	Not classified

14.6	**Special precautions for user**	See Section: 2
14.7	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
14.8	**Additional Information**	Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 EU regulations

Authorisations and/or Restrictions On Use	None.
Community Rolling Action Plan (CoRAP)	2015 - Evaluating Member State has concluded that no additional information is required.

15.1.2 National regulations

Germany	Water hazard class: 1

15.2 Chemical Safety Assessment Not available.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

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References:
Existing Safety Data Sheet (SDS). Existing ECHA registration(s) for Diethylene glycol (CAS No. 111-46-6). Harmonised Classification(s) for Diethylene glycol (CAS No. 111-46-6). All test data taken from existing ECHA registrations for the substances mentioned.

Literature References:

1. Carpenter CP, Smyth HF. 1946. Chemical burns of the rabbit cornea. Am J Ophthal 29: 1363-1372.
2. Hiasa Y, Kitahori Y, Morimoto J, Konishi N, Ohshima M. 1990. Absence of carcinogenic or promoting effects of diethylene glycol on renal tumorigenesis in rats. J Toxicol Pathol 3: 97-104.

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Acute Tox. 4; H302	Test Result

LEGEND

LTEL: Long Term Exposure Limit
STEL: Short Term Exposure Limit
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
OECD: Organisation for Economic Cooperation and Development
NOEC: No Effect Concentrationn Concentration

Hazard Statement(s)
H302: Harmful if swallowed.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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Annex to the extended Safety Data Sheet (eSDS)
Not available.