

# SAFETY DATA SHEET LIQUID HEAT DEICER

E-mail address staff@liquidheat.com

Print Date: 15-Apr-2019

Revision Date 15-Apr-2019

Version 2

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier	
Product Name	Liquid Heat Deicer
Other means of identification	
Synonyms	Liquid Heat
Recommended use of the che	mical and restrictions on use
Uses advised against	No information available
Details of the supplier of the s	afety data sheet
Supplier Address	
Zircon Industries Incorporated	d
4920 Commerce Parkway #9	
Cleveland, OH 44128	
216-595-0200	

Emergency telephone number Emergency Telephone InfoTrac 1-800-535-5053

## 2. HAZARDS IDENTIFICATION

### **Classification**

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Irritating to eyes	Category 4
Irritating to skin	Category 4
Irritating to respiratory system	Category 3
May be harmful if swallowed	Category 4

#### Label elements

**Emergency Overview** 

## WARNING



#### Hazard statements

Irritating to skin, eyes, and respiratory system. Can be harmful if swallowed.

## **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace Wear protective gloves

### **Precautionary Statements - Response**

IF EXPOSED or concerned: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

#### Precautionary Statements - Storage

Store in well-ventilated area

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not Applicable

. .

Unknown Acute Toxicity

0% of the substance or mixture consists of ingredient(s) of unknown toxicity

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS No.	Weight-%	Trade Secret
Diethylene Glycol	111-46-6	20-80	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

First aid measures	
General advice	Seek medical attention if symptoms occur.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.
Skin Contact	Wash off immediately with soap and plenty of water.
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Self-protection of the first aider	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.
Most important symptoms and effe	cts, both acute and delayed
<u>Symptoms</u>	No information available.
Indication of any immediate medic	al attention and special treatment needed
Note to physicians	Treat symptomatically.

## **5. FIRE-FIGHTING MEASURES**

# <u>Suitable extinguishing media</u> Dry chemical, CO2 or water spray.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

#### Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak.
Environmental precautions	
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods and material for containm	ent and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up	Cover liquid spill with sand, earth or other non-combustible absorbent material.

## 7. HANDLING AND STORAGE

Precautions for safe handling	
Advice on safe handling Conditions for safe storage, including any incompatibilities	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.
Incompatible materials	None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

#### **Exposure Guidelines**

Chemical Name	WEEL (USA)	OSHA PEL	NIOSH IDLH
Diethylene Glycol 111-46-6	10.0 mg/m³ inhalable fraction and vapor	10.0 mg/m3 TWA	No data available

## Appropriate engineering controls

**Engineering Controls** 

Showers Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

Eye/face protection	Safety Glasses with Side Shields.
Skin and body protection	Wear protective gloves and protective clothing.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs.

	9. PHYSICAL AND CHEMIC	AL PROPERTIES	
Information on basic physical and c			
Physical stateliquidAppearanceclearColorred		Odor threshold Odor	No information available mild
<u>Property</u> pH 6- Melting point/freezing point Boiling point / boiling range	<u>Values_</u> 8 @77F 143 ° C / 289 ° F	Remarks • Method No information available	
Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure		No information available No information available No information available No information available No information available No information available	
Vapor density Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties	Miscible in water	No information available No information available	
<u>Other Information</u> Explosion severity Danger of Explosion, cloud Minimum Ignition Energy, Clo mJ	ud,	No information available No information available	
KST, (cloud), bar.m.s-1 Pmax maximum explosion pressure, Cloud, bar		No information available No information available	
VMP, (cloud), bar.s-1 LOC Limiting Oxygen Concentration, Cloud, %v/v O	2	No information available No information available	
Softening point Molecular weight Density Bulk density Specific Gravity	1.2-1.22@ 25C for 40% Solution	No information available No information available No information available No information available	

## **10. STABILITY AND REACTIVITY**

## Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

## **Chemical Stability**

Material is stable under normal conditions.

#### Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

#### Conditions to avoid

Contact with incompatible materials.

#### Incompatible materials

Strong oxidizing agents.

## Hazardous decomposition products

No hazardous decomposition products are known.

## **11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

Product Information	Causes serious eye damage.	
LD 50	Rat (oral) + (dermal)	>2000mg/kg
Inhalation	Not a respiratory sensitizer.	
Eye contact	Causes eye irritation.	
Skin Contact	Mild – 24 Hours (Rabbit).	
Ingestion	Can be harmful if swallowed	

## Information on toxicological effects

Symptoms	No information available.
Delayed and immediate effects as	s well as chronic effects from short and long-term exposure
Sensitization Germ cell mutagenicity	
Carcinogenicity	No information or data specific to the product on this toxicological (health) effect is available.
Reproductive toxicity	
STOT - single exposure	No information or data specific to the product on this toxicological (health) effect is available.
STOT - repeated exposure	No information or data specific to the product on this toxicological (health) effect is available.
Target Organ Effects Aspiration hazard	Central nervous system, Eyes. No information or data specific to the product on this toxicological (health) effect is available.

### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

## **12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

Chemical Name	Fish
Diethylene Glycol 111-46-6	Fathead minnow (Pimephales promelas) >32,000 mg/l, 96 hours

#### Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

#### Other adverse effects

No information available

## **13. DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

## **14. TRANSPORT INFORMATION**

DOT	Not regulated as a dangerous good		
IATA	Not regulated as a dangerous good		
IMDG	Not regulated as a dangerous good		

15. REGULATORY INFORMATION				
International Inventories				
AICS	Yes			
DSL	Yes			
NDSL	No			
IECSC	Yes			
EINECS	Yes			
ELINCS	No			
ENCS	Yes			
KECL	Yes			
PICCS	Yes			
TSCA	Yes (Registered Lautenberg 21st act)			
NZIOC	Yes			

### Legend:

AICS - Australian Inventory of Chemical Substances DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List IECSC - China Inventory of Existing Chemical Substances EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

NZIOC - New Zealand Inventory of Chemicals

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %		
SARA 311/312 Hazard Categories			
Acute health hazard	Yes		
Chronic Health Hazard	No		
Fire hazard	No		
Sudden release of pressure hazard	No		
Reactive Hazard	No		

#### CERCLA

This material, as supplied, contains no substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

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

Not regulated.

#### SARA 311/312 Hazardous Classified hazard categories

No

16. OTHER INFORMATION						
<u>NFPA</u>	Health hazards 1	Flammability 0	Instability 0	Physical and Chemical Properties -		
<u>HMIS</u>	Health hazards 1*	Flammability 0	Physical hazards 0	Personal protection X		
<b>Revision Date</b>	15-Apr-2019					

Revision Note

SDS sections updated (\*\*\*) GHS Revision

## <u>Disclaimer</u>

The information provided above is intended as a guide to assist in the safe handling, use, processing, storage, transportation, disposal and release of the material listed. Nothing contained herein is to be considered as an express or implied warranty of performance or quality. The information relates only to the specific material designated and may not be applicable when such material is used in combination with any other materials or as part of any process, except as otherwise expressly described herein. The information is believed to be true and correct as of the date issued. Always make sure you are using the most current information available. The material described herein is produced for commercial and industrial use only and unless otherwise specifically designated by the manufacturer in writing has not received any specific regulatory approval such as approvals for food contact or for use in medical/surgical applications or devices. It is buyer and user's sole and exclusive responsibility to ensure that any handling, use, processing, storage, transportation, disposal and release of the material complies with all applicable laws, rules and regulations.

#### End of Safety Data Sheet