

SAFETY DATA SHEET Z FOAM PENETRATE CHAIN & CABLE LUBE

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Version 2

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

<u>Product identifier</u> Product Name	Z Foam Penetrant Chain and Cable Lube	
Other means of identification Synonyms	Z Foam 497255	
Recommended use of the chemical	and restrictions on use	
Uses advised against	No information available	
Details of the supplier of the safety Supplier Address Zircon Industries Incorporated 4920 Commerce Parkway #9 Cleveland, OH 44128 216-595-0200	<u>data sheet</u>	E-mail address staff@liquidheat.com

Emergency telephone number Emergency Telephone In

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).

Skin Corrosion / Irritation	Category 2
Serious Eye Irritation	Category 2A
STOT (Single exposure)	Category 3
STOT (Repeated exposure)	Category 2
Gasses under pressure	Category 1
Flammable Aerosol	Category 1
Flammable Liquid	Category 1

Label elements

DANGER

Emergency Overview



Hazard statements

Causes Skin Irritation Extremely Flammable Aerosol May be fatal if swallowed Causes eye damage/ irritation Contains Gas Under Pressure; may explode if heated May cause damage to organs through prolonged or repeated exposure

Precautionary Statements - Prevention

Flammable liquid and vapor May be fatal if swallowed and enters airway. Causes skin irritation. Use personal protective equipment as required. Pressurized container. Do not pierce or burn, even after use 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 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 Do not expose to temperatures above 50C / 122F **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
Mineral oil, petroleum distillates, solvent dewaxed heavy paraffinic	64742-42-5	40-90	*
Isobutane	75-28-5	2-5	*
Propane	74-98-6	10-20	*
Butane	106-97-8	2-10	*

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

4. FIRST AID MEASURES

First aid measures

<u>General advice</u> Eye contact	Immediate medical attention is required. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.
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	ects, both acute and delayed

Symptoms No information available. Indication of any immediate medical 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. See Section 12 for additional ecological information.		
Methods and material for containment 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 . NIOSH IDLH Immediately Dangerous to Life or Health

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.
Exposure Limits	
	2-Propanol 200 ppm 492 mg/m3 TLV ACGIH 400 ppm 984 mg/m3 STEL ACGIH 400 ppm 980 mg/m3 PEL OSHA 400 ppm 980 mg/m3 REL NIOSH 500 ppm 1225 mg/m3 STEL NIOSH Butane
	200 ppm 1640 mg/m3 TLV NIOSH 400 ppm 984 mg/m3 STEL ACGIH 400 ppm 1000 mg/m3 PEL OSHA

Propane

200 ppm 492 mg/m3 TLV ACGIH 400 ppm 984 mg/m3 STEL ACGIH 400 ppm 980 mg/m3 PEL OSHA 400 ppm 1000 mg/m3 REL NIOSH 500 ppm 1225 mg/m3 STEL NIOSH

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Color	liquid aerosol clear colorless		Odor threshold Odor	No information available No information available
<u>Property</u> pH Melting point/freezing Boiling point / boiling		<u>Values</u>	Remarks • Method No information available No information available No information available	
Flash point Evaporation rate Flammability (solid, g Flammability Limit in Upper flammability Lower flammability Vapor pressure	Air limit:	Below 73F 101.3mm/hg	No information available No information available No information available No information available	
Vapor density Water solubility Solubility in other so Partition coefficient Autoignition tempera Decomposition temp Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties	iture erature	Insoluble	No information available No information available No information available No information available No information available No information available No information available	

Other Information
Explosion severity
Danger of Explosion, cloud
Minimum Ignition Energy, Cloud, mJ
mj

KST, (cloud), bar.m.s-1 Pmax maximum explosion pressure, Cloud, bar

VMP, (cloud), bar.s-1 LOC Limiting Oxygen Concentration, Cloud, %v/v O2

Softening point Molecular weight Density Bulk density Specific Gravity

0.68@ 25C

No information available

No information available No information available

No information available No information available

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. High temperatures

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Carbon Dioxide, Carbon Monoxide

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Causes serious eye damage. Can be fatal if swallowed
Inhalation	Is a respiratory sensitizer.
Eye contact	Causes eye damage/irritation.
Skin Contact	Causes skin damage/irritation
Ingestion	Can be fatal if swallowed.

Information on toxicological effects

Propane	LD50 Dermal	Rabbit	12800mg/kg
	LD50 Oral	Rat	5000 mg/kg
Butane/Heptane	LC50 Vapor Inhalation	Rat	658000mg/kg
	LC50 Gas Inhalation	Rat	48000mg/kg

Delayed and immediate effects as 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.

Torgot Orgon Efforts	Control portrous system Eves								
Target Organ Effects Aspiration hazard									
	available.								
Numerical management of toxicity	Draduct Information								
Numerical measures of toxicity -	Numerical measures of toxicity - Product Information								
The following values are calculated based on chapter 3.1 of the GHS document .									
12. ECOLOGICAL INFORMATION									
<u>Ecotoxicity – LC 50 Values</u> 2-Propanol	Fish Rasbora Heteromorpha	4200mg/l	96 Hours						
2-F10pall01		420011g/1	50 110013						
Butane	Fish Pimephales Promelas	173000 ug/l	96 Hours						
Persistence and degradability									
No information available.									
Bioaccumulation No information available.									
Other adverse effects	No information available								
	13. DISPOSAL CONSIDER	ATIONS							
Waste treatment methods									
Disposal of wastes	Disposal should be in accordance witl	h applicable region	al national and local laws and						
Disposal of wastes	regulations.	n applicable region							
Contaminated packaging	Do not reuse container.								
	14. TRANSPORT INFORM								
DOT Proper Shipping Name:	Flammable Aerosols								
IMDG Flammable Aerosols. – NOT	A MARINE POLLUTANT								
IATA:Flammable Aerosols									
DOT, IMDG, IATA Primary Hazard	Class: 2.1								
DOT, IMDG, IATA Packing Group:	11								
· · · · · ·									
Label Required 3									
UN Number . UN 1950									
	15. REGULATORY INFOR	MATION							
International Inventories									
AICS DSL	Yes Yes								
NDSL	No								
IECSC	Yes								
EINECS									
ELINCS	No								
ENCS	Yes								
ECL Yes									

Yes (Registered Lautenberg 21st act)

Yes

Yes

Legend:

PICCS

TSCA

NZIoC

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	Yes		
Fire hazard	Yes		
Sudden release of pressure hazard	Yes		
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	Yes
Classified hazard categories	Eye Damage or Irritation, skin damage or irritation
	Aspiration hazard, Flammable.

California Prop 65

16. OTHER INFORMATION

None

<u>NFPA</u>	Health hazards 2	Flammability 3	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 2*	Flammability 3	Physical hazards 0	Personal protection X

Revision Date

25-Apr-2019

Revision Note

SDS sections updated (***) GHS Revision

Disclaimer

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