

SAFETY DATA SHEET **ZL98 HIGH PURITY PLASTIC** SAFE CONTACT CLEANER

Conforms to GHS Version 4.0 2024 HazCom Revisions

Print Date: 03-Oct-2024

Revision Date 03-Oct-2024

Version 3

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

Product identifier **Product Name** ZL98 High Purity Plastic Safe Contact Cleaner Other means of identification Synonyms none Recommended use of the chemical and restrictions on use Uses advised against No information available Details of the supplier of the safety data sheet Supplier Address E-mail address staff@liquidheat.com **Zircon Industries Incorporated** 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).

Skin Corrosion / Irritation	Category 2
Serious Eye Damage/Irritation	Category 2
Highly Flammable Liquid and Vapor	Category 2
Gasses Under Pressure	Compressed Gas
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed

Label elements

DANGER

Emergency Overview



Hazard statements

Harmful in contact with skin Causes skin irritation Causes serious eye irritation Highly Flammable Liquid and Vapor May cause respiratory irritation. May cause drowsiness or dizziness May cause damage to organs through prolonged or repeated exposure Contains gas under pressure; may explode if heated

Skin Sensitizer – Category 2

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 Wear eye/face protection Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

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

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
1-Bromopropane	106-94-5	80-95	*
Difluoroethane	75-37-6	1-10	*

*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
Skin Contact	immediately. 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		
n-propyl bromide 106-94-5	ACGIH TLV	0.1ppm
NIOSH IDLH Immediately Dangerous to Life or Health		
Appropriate engineering controls		
Engineering Controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, such	ch as personal protective equipment	
Eye/face protection	Safety Glasses with Side Shields.	
Skin and body protection	Wear protective gloves and protective of	clothing.
Respiratory protection	respiratory protection should be worn.	tion is experienced, NIOSH/MSHA approved Positive-pressure supplied air respirators may be concentrations. Respiratory protection must be ral regulations.
General Hygiene Considerations		. Regular cleaning of equipment, work area and t with skin, eyes or clothing. Wash hands thoroughly rink and animal feeding stuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Color	aerosol clear colorless		Odor threshold Odor	No information available Mild
<u>Property</u> pH Melting point/freezir Boiling point / boilin		<u>Values</u>	Remarks • Method No information available No information available No information available	
Flash point Evaporation rate Flammability (solid, Flammability Limit in Upper flammabilit Lower flammabilit Vapor pressure	n Air y limit:	>250F <2mm/hg	No information available No information available No information available No information available	
Vapor density Water solubility Solubility in other so Partition coefficient Autoignition temper Decomposition temp Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties	ature berature	Insoluble	No information available No information available	
Other Information Explosion severity Danger of Explosi Minimum Ignition mJ		,	No information available No information available	
KST, (cloud), bar.ı Pmax maximum e pressure, Cloud, t	xplosion		No information available No information available	
VMP, (cloud), bar. LOC Limiting Oxy Concentration, Cl	gen		No information available No information available	
Softening point Molecular weight Density Bulk density Specific Gravity	1	.18@ 25C	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 50 106-94-5		
1-Bromopropane	Rat (oral)	3600mg/kg
	Rat (inhalation)	253 g/m3
Inhalation	Is a respiratory sensit	tizer.
Eye contact	Causes eye damage/	irritation.
Skin Contact	Causes skin damage	/irritation
Ingestion	Can be harmful if swa	allowed.

Information on toxicological effects

Symptoms

No information available.

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	Category 3.
STOT - repeated exposure	Category 2.
Target Organ Effects	Central nervous system, Eyes.
Aspiration hazard	Can be harmful if swallowed.

Numerical measures of toxicity - Product Information

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

12. ECOLOGICAL INFORMATION Ecotoxicity Not toxic to aquatic life 1-Bromopropane 106-94-5 Fish 67.3: 96 h Pimephales promelas mg/L LC50 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**

Based on package size, product may be eligible for limited quantity exception.

DOT Proper Shipping Name: Aerosols (flammable)

IMDG Aerosols (flammable) - MARINE POLLUTANT

IATA: Aerosols (flammable)

DOT, IMDG, IATA Primary Hazard Class: 2.2

DOT, IMDG, IATA Packing Group: III

UN Number . UN 1950

15. REGULATORY INFORMATION		
International Inventories	<u>8</u>	
AICS	Yes	
DSL	Yes	
NDSL	No	
IECSC	Yes	
EINECS	Yes	
ELINCS	No	
ENCS	Yes	
KECL	No	
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

<u>SARA 313</u>

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
	Sensitizer
<u>California Prop 65</u>	1-Bromopropane 106-94-5 Developmental Female
	Reproductive Male Reproductive

16. OTHER INFORMATION				
<u>NFPA</u>	Health hazards 2	Flammability 3	Instability 0	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 2*	Flammability 3	Physical hazards 0	Personal protection B
Revision Date	03-Oct-2024			

Revision Note

SDS sections updated (***) GHS 4.0 2024

<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