

SAFETY DATA SHEET Z99 SAFETY SOLVENT AEROSOL (NON-FLAMMABLE)

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Version 2

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

Product identifier **Product Name Z99 Safety Solvent Aerosol (Non-Flammable)** 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).

Carcinogenicity	Category 1B
Skin Irritation	Category 2
Eye Irritation	Category 2
Skin Sensitizer	Category 1B
STOT (Single Target Organ)	Category 3

Label elements

Emergency Overview

DANGER



Hazard statements

Causes Skin Irritation Causes Eye Irritation May be harmful if swallowed Can cause cancer Skin Sensitizer – Category 1B

Precautionary Statements - Prevention

May be fatal if swallowed and enters airway. May cause an allergic skin reaction. Use personal protective equipment as required. Use only in well ventilated area 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

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
Tetrachloroethylene	127-18-4	60-95	*

*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.
Methods and material for containme	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	ACGIH TLV	OSHA PEL	NIOSH REL
Tetrachloroethylene 127-18-4	TWA: 100 mg/m3 inhalable fraction and vapor	TWA: 100 mg/m3 inhalable fraction and vapor	

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Color	liquid clear colorless		Odor threshold Odor	No information available Mild hydrocarbon
<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 i Upper flammabilit Lower flammabilit Vapor pressure	n Air y limit:	93C/>199F 4.53mm/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 oerature	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 Explosi Minimum Ignition mJ		,	No information available No information available	
KST, (cloud), bar. Pmax maximum e pressure, Cloud, I	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	.08@ 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

Can be harmful if swallowed

Chemical Name	Oral LD50	Inhalation LC50	
Tetrachloroethylene 127-18-4	2000 mg/kg	3800 mg/kg	

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	Category 1A OSHA.
Reproductive toxicity	
STOT - single exposure	Respiratory System.
STOT - repeated exposure	No information or data specific to the product on this toxicological (health) effect is available.
Target Organ Effects	Central nervous system, Eyes.
Aspiration hazard	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
Tetrachloroethylene 127-18-4	LC50 – Fathead Minnow - 46 - 100 mg/l - 96 h

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 Proper Shipping Name:	Aerosols, nonflammable.				
IMDG Aerosols, nonflammable					
IATA: Aerosols, nonflammable					
DOT, IMDG, IATA Primary Hazard Class: 2.2					
DOT, IMDG, IATA Packing Group: III					

UN Number . UN 1993

15. REGULATORY INFORMATION				
International Inventories				
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

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 Chronic Health Hazard Fire hazard Sudden release of pressure hazard Reactive Hazard	Yes Yes Yes No		
CERCLA Tetrachloroethylene 100lbs. (40 CFR 302)			
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. I Not regulated.	<u>וכ</u>		
CARCINOGEN	Trichloroethylene 127-18-4 Category 1B		
SARA 313 Hazardous	Trichloroethylene 127-18-4		
SARA 311/312 Hazardous Classified hazard categories	Yes Eye Damage or Irritation, skin damage or irritation Carcinogen, Sensitizer		
California Prop 65	Tetrachloroethylene 127-18-4 (Cancer)		

16. OTHER INFORMATION							
<u>NFPA</u>	Health hazards 2	Flammability 0	Instability 0	Physical and Chemical Properties -			
<u>HMIS</u>	Health hazards 2*	Flammability 0	Physical hazards 0	Personal protection X			
Revision Date	19-Apr-2019						

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

Disclaimer

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