

SAFETY DATA SHEET

De Aqua Lube

Print Date: 24-Apr-2019 Revision Date 24-Apr-2019 Version 2

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

Product identifier

Product Name De Aqua Lube

Other means of identification

Synonyms none

Recommended use of the chemical and restrictions on use
Uses advised against
No information available

<u>Details of the supplier of the safety data sheet</u>
Supplier Address
Zircon Industries Incorporated
4920 Commerce Parkway #9
Cleveland, OH 44128
216-595-0200

E-mail address staff@liquidheat.com

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
Aspiration Hazard	Category 1
Carcinogenicity	Category 2
Aerosol	Category 3

Label elements

Emergency Overview

DANGER



Hazard statements

Causes Skin Damage/Irritation
Flammable Liquid and Vapor
May be fatal if swallowed
Causes skin irritation
May cause cancer
Contents under pressure. May burst if heated

Precautionary Statements - Prevention

May be fatal if swallowed and enters airway.

Causes skin irritation.

May cause cancer.

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	50-90	*
Mineral Oil, Petroleum Distillates, Solvent dewaxed heavy parrafinic	64742-65-0	5-15	*

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

4. FIRST AID MEASURES

First aid measures

General advice Immediate medical attention is required.

Eye contact 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.

<u>Inhalation</u> 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 effects, 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

Suitable extinguishing media

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 upCover 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.

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children.

Incompatible materialsNone known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Storage Conditions

COMPONENTCAS#OSHA TWAACGIH TWAACGIH STELTetrachloroethylene127-18-49000mg/kg9000mg/kg54000mg/kg

Mineral Oil Petroleum Distillates

Solvent Dewaxed Heavy Paraffinic 64742-65-0 2000mg/kg No Data No Data

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.

English US OSHA

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical stateliquidOdor thresholdNo information availableAppearanceclearOdorStrawberry

Color amber

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pHNo information availableMelting point/freezing pointNo information availableBoiling point / boiling rangeNo information available

Flash point >400C

Evaporation rateNo information available

Flammability (solid, gas)

No information available
Flammability Limit in Air

Upper flammability limit:No information availableLower flammability limit:No information available

Vapor pressure No Information available

Vapor density

Water solubility Insoluble

Solubility in other solvents No information available **Partition coefficient** No information available No information available **Autoignition temperature Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties** No information available Oxidizing properties No information available

Other Information

Explosion severity

Danger of Explosion, cloudNo information availableMinimum Ignition Energy, Cloud,No information available

mЈ

KST, (cloud), bar.m.s-1

Pmax maximum explosion

No information available
No information available

pressure, Cloud, bar

VMP, (cloud), bar.s-1 No information available
LOC Limiting Oxygen No information available

Concentration, Cloud, %v/v O2

Softening pointNo information availableMolecular weightNo information availableDensityNo information availableBulk densityNo information available

Specific Gravity 1.08@ 25C

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.

COMPONENT CAS# LD50 ORAL LD50 DERMAL LC50 INHALATION

Tetrachloroethylene 127-18-4 2600mg/kg 3245mg/kg 3786mg/kg

Mineral Oil Petroleum Distillates

Solvent Dewaxed Heavy Paraffinic 64742-65-0 >5000mg/kg >5000mg/kg No Data

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

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.

English US OSHA 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 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

Very toxic to aquatic life with long lasting effects

COMPONENTCAS#SPECIESLD50DURATIONTetrachloroethylene127-18-4Fish*14 mg/l96 Hours

* Pimephales promelas

Persistence and degradability

No information available. **Bioaccumulation**No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Tetrachloroethylene waste number U210 RCRA 0.7 mg/l regulatory level

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: Tetrachloroethylene

IMDG Tetrachloroethylene - MARINE POLLUTANT

IATA: Tetrachloroethylene

DOT, IMDG, IATA Primary Hazard Class: 6.1

DOT, IMDG, IATA Packing Group: III

Label Required 6.1

UN Number . UN 1897

15. REGULATORY INFORMATION			
International Inventories			
AICS	Yes		
DSL	Yes		
NDSL	No		
IECSC	Yes		
EINECS	Yes		
ELINCS	No		
ENCS	Yes		
KECL	No		

English US OSHA

De Aqua Lube

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 %
Tetracloroethylene	0.1% DeMinimis Concentration

SARA 311/312 Hazard Categories

Acute health hazard Yes **Chronic Health Hazard** Yes Fire hazard Nο Sudden release of pressure hazard Nο **Reactive Hazard** No

CERCLA

Tetrachloroethylene - 100lb. final RQ; 45.4 kg final RQ

CARCINOGENICITY: Tetrachloroethylene Category 2

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

Not regulated.

SARA 311/312 Hazardous

Classified hazard categories

Eye Damage or Irritation, skin damage or irritation Aspiration hazard, Flammable, Sensitizer

California Prop 65 Tetrachloroethylene (Cancer)

16. OTHER INFORMATION

NFPA Health hazards 2 Flammability 0 Instability 0 **Physical and Chemical**

Properties -

Health hazards 2* **HMIS** 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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End of Safety Data Sheet

English **US OSHA**