

## SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS#: 082986

**AZOLLA ZS 32** 

Date of the previous version: 2015-10-13

Revision Date: 2016-03-10

Version 2

## 1. IDENTIFICATION

Product identifier

Product name

AZOLLA ZS 32 (KL C Antiwear 68 Pail)

Other means of identification

Product Code(s)

082986

Number

157

Substance/mixture

Mixture

Recommended use of the chemical and restrictions on use

Identified uses

Hydraulic oil.

Uses advised against

Do not use for any purpose other than the one for which it is intended

Details of the supplier of the safety data sheet

Supplier Address

TOTAL Specialties USA Inc 1201 Louisiana Street, Suite 1800

Houston, TX 77002 Phone: +1 800 323 3198

**Contact Point** 

Technical/ HSEQ

E-mail Address

USRMLIN-info@total.com

Emergency telephone number

Company Phone Number

+1 (908) 862-9300

Emergency telephone +1 866 928 0789 (24h/24, 7d/7)

+1 215 207 0061 (24h/24, 7d/7)

## 2. HAZARDS IDENTIFICATION

## Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### Label elements

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)



# **AZOLLA ZS 32**

Date of the previous version: 2015-10-13 Revision Date: 2016-03-10 Version 2

Unknown Acute Toxicity
No information available

Hazards not otherwise classified (HNOC)

None known

Other information

**Physical-Chemical Properties** 

Contaminated surfaces will be extremely slippery.

**Environmental properties** 

Should not be released into the environment.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Chemical Name	CAS-No	Weight %
Zinc alkyldithiophosphate	68649-42-3	<1

Additional information

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

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

## 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

General advice

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR

EMERGENCY MEDICAL CARE.

Eye contact

Rinse immediately with plenty of water and seek medical advice.

Skin contact

Remove contaminated clothing and shoes. Wash off with soap and water. Wash

contaminated clothing before reuse.

Inhalation

Move to fresh air, Inhalation of high concentrations of vapor or aerosols may cause irritation

of the upper respiratory tract.

Ingestion

If swallowed, do not induce vomiting - seek medical advice.

## Most important symptoms/effects, acute and delayed

Skin contact

Not classified. High pressure injection of the products under the skin may have very serious

consequences even though no symptom or injury may be apparent.

Eye contact

Not classified. May cause eye irritation with susceptible persons.



# **AZOLLA ZS 32**

Date of the previous version: 2015-10-13

Revision Date: 2016-03-10

Version 2

Inhalation

Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory

system.

Ingestion

Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

**Symptoms** 

Redness, Itching.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). ABC powder. Water spray.

**Unsuitable Extinguishing Media** 

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

Special Hazard

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may

be highly dangerous if inhaled in confined spaces or at high concentration.

Explosion Data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge None.

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. Evacuate non-essential personnel.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**General Information** 

Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all

sources of ignition.

Other information

See Section 12 for additional Ecological information.

Environmental precautions

**General Information** 

Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up



# **AZOLLA ZS 32**

Date of the previous version: 2015-10-13

Revision Date: 2016-03-10

Version 2

Methods for cleaning up

Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling

When using, do not eat, drink or smoke. For personal protection see section 8, Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

Prevention of fire and explosion

Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.

Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

## Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design equipment to avoid accidental product leakage (for example due to seal failure) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

Materials to Avoid

Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure limits** 

Mineral oil mist:

USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL 10 mg/m3, ACGIH

(TLV) TWA 5 mg/m3 (highly refined).

#### **Exposure controls**

**Engineering Measures** 

Apply technical measures to comply with the occupational exposure limits.



# **AZOLLA ZS 32**

**Revision Date: 2016-03-10** Date of the previous version: 2015-10-13

Version 2

## Individual protection measures, such as personal protective equipment

**General Information** 

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

**Eye/Face Protection** 

If splashes are likely to occur, wear:. Safety glasses with side-shields.

Skin and body protection

Wear suitable protective clothing. Protective shoes or boots.

**Hand Protection** 

Hydrocarbon-proof gloves. Fluorinated rubber. Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Respiratory protection

None required under normal usage. 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.

Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical and chemical properties

Color

Physical State @20°C

Odor

**Odor Threshold** 

amber

liquid

Petroleum distillates No information available

Property\_

Values

207 °C

405 °F

Remarks

Method

Melting point/range

Not applicable

No information available

Boiling point/boiling range

Not applicable

Flash point

Cleveland Open Cup (COC)

ASTM D 92

Cleveland Open Cup (COC).

ASTM D 92.

**Evaporation rate** 

Flammability Limits in Air

No information available

No information available



# **AZOLLA ZS 32**

Date of the previous version:	2015-10-13	Revision Date: 2016-03-10	Version 2
-------------------------------	------------	---------------------------	-----------

upper No information available Lower No information available Vapor Pressure No information available Vapor density No information available Relative density 0.867 @ 15 °C **ASTM D 1298** @ 15 °C 868 kg/m3 Density **ASTM D 1298** Water solubility Not applicable Solubility in other solvents No information available logPow No information available Not applicable Autoignition temperature No information available Decomposition temperature Viscosity, kinematic 32 mm2/s @ 40 °C ASTM D 445 **Explosive properties** Not explosive **Oxidizing Properties** Not applicable Possibility of hazardous reactions Not applicable Other information **Specific Gravity** 0.867 @ 15 °C **ASTM D 1298** No information available

## 10. STABILITY AND REACTIVITY

Reactivity

Freezing Point

No information available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions None under normal processing.

**Conditions to Avoid** 

Heat, flames and sparks. Take precautionary measures against static discharges. Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Strong

oxidizing agents.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

**Principle Routes of Exposure** 

Inhalation, Ingestion, Eye contact, Skin contact.

**Symptoms** 

Redness. Itching.

Skin contact

Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.

Eye contact

Not classified. May cause eye irritation with susceptible persons.



# **AZOLLA ZS 32**

Date of the previous version: 2015-10-13 Revision Date: 2016-03-10 Version 2

Inhalation

Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory

system.

Ingestion Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Acute toxicity - Product Information

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Oral

ATEmix (oral)

5057 mg/kg

Dermal

ATEmix (dermal)

5057 mg/kg

Inhalation

ATEmix (inhalation-dust/mist)

5.2 mg/l

ATEmix (inhalation-vapor)

30.3 mg/l

#### Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Zinc alkyldithiophosphate	LD50 2900 mg/kg (Rat)	LD50 > 2000 mg/kg (Rabbit)	
68649-42-3			

Sensitization

Not classified as a sensitizer.

Carcinogenicity

Contains no ingredient listed as a carcinogen.

Mutagenicity

Contains no ingredient listed as a mutagen.

Reproductive toxicity

This product does not present any known or suspected reproductive hazards.

Aspiration Hazard

Not classified.

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Acute aquatic toxicity - Product Information

No experimental data available

## Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
Zinc alkyldithiophosphate	EC50 (72h) 2.2 mg/l	LC50 (96h) 4.5 mg/l	EC50 (48h) 1.2 mg/l	
68649-42-3			(Daphnia magna)	



# **AZOLLA ZS 32**

Date of the previous version: 2015-10-13 Revision Date: 2016-03-10 Version 2

## Chronic aquatic toxicity - Product Information

No experimental data available

## Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Zinc alkyldithiophosphate 68649-42-3	NOEC 1.0 mg/l	NOEC (21d) 0.4 mg/l (Daphnia magna)	NOEC(28d) 1.8 mg/l	

Effects on terrestrial organisms

No experimental data available.

Persistence and degradability

General Information ...

No information available.

Bioaccumulative potential

**Product Information** 

No information available.

logPow

No information available

Component Information

Component information .	
Chemical Name	log Pow
Zinc alkyldithiophosphate	0.56
68649-42-3	

## **Mobility**

Soil

No information available

Other adverse effects

**General Information** 

No information available

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment

**Waste Disposal Methods** 

Dispose of in accordance with local regulations.

Contaminated packaging

Dispose of in accordance with local regulations.



# **AZOLLA ZS 32**

Date of the previous version: 2015-10-13 Revision Date: 2016-03-10 Version 2

## 14. TRANSPORT INFORMATION

DOT

Not regulated

TDG

Not regulated

MEX

Not regulated

ICAO/IATA

Not regulated

IMDG/IMO

Not regulated

ADR/RID

Not regulated

ADN

Not regulated

## 15. REGULATORY INFORMATION

International Inventories

All the substances contained in this product are listed or exempted from listing in the

following inventories:

U.S.A. (TSCA)

## **U.S. Federal Regulations**

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

## SARA 311/312 Hazard Categories

Acute Health Hazard	no
Chronic Health Hazard	no
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

## Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.



# **AZOLLA ZS 32**

Date of the previous version: 2015-10-13 Revision Date: 2016-03-10 Version 2

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## U.S. State Regulations

## California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	Weight %	California Prop. 65
Toluene - 108-88-3	0.0025	Developmental
		Female Reproductive

## U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois
Paraffin oils (petroleum),catalytic dewaxed heavy 64742-70-7	X			
Distillates (petroleum), hydrotreated light paraffinic 64742-55-8	Х			

## 16, OTHER INFORMATION

<u>NFPA</u>

Health Hazard 0

Flammability 1

Instability 0

Physical and chemical

hazards -

<u>HMIS</u>

Health Hazard 0

Flammability 1

Physical Hazard 0

Personal protection X

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

**Revision Date:** 

2016-03-10

**Revision Note** 

\*\*\* Indicates updated section



# **AZOLLA ZS 32**

Date of the previous version: 2015-10-13

Revision Date: 2016-03-10

Version 2

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

## Legend

Section 8

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

TLV - Threshold Limit Values

PEL - Permissible Exposure Limits

IDHL - Immediately Dangerous to Life or Health concentrations

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S\* - Skin notation

TSCA - Toxic Substance Control Act

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the Safety Data Sheet

·			
		·	
		·	
	!		
·			
÷		·	
·			