

# SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

**SDS # :** 082984

# **AZOLLA ZS 68**

Date of the previous version: 2016-03-10

**Revision Date:** 2016-03-10

Version 1.04

1. IDENTIFICATION	
I. IDENTIFICATION	
Product identifier	
Product name	AZOLLA ZS 68
Other means of identification	
Product Code(s)	082984
Number Substance/mixture	164 Mixture
Recommended use of the chemica	I 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	y 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 Emergency telephone	+1 (908) 862-9300 +1 866 928 0789 (24h/24, 7d/7) +1 215 207 0061 (24h/24, 7d/7)
2. HAZARDS IDENTIFICATIO	DN

# **Classification**

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

#### Label elements

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#### 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 %
Distillates (petroleum), hydrotreated heavy	64742-54-7	30-35
paraffinic		

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.	



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Eye contact	Not classified. May cau	se eye irritation with susceptible persons.	
Inhalation	Not classified. Inhalatio system.	n of vapors in high concentration may cause irritation	n of respiratory
Ingestion	Not classified. Ingestior diarrhea.	n may cause gastrointestinal irritation, nausea, vomit	ting and
Symptoms	Redness. Itching.		
Indication of immediate medical at	tention and special treat	ment needed, if necessary	
Notes to physician	Treat symptomatically.		
5. FIRE-FIGHTING MEASURI	S		
Suitable Extinguishing Media	Foam. Carbon dioxide (	CO 2). ABC powder. Water spray.	
Unsuitable Extinguishing Media	Do not use a solid wate	r stream as it may scatter and spread fire.	
Special Hazard	carbon monoxide, carbo	and thermolysis may produce gases of varying toxic on dioxide, various hydrocarbons, aldehydes and so nhaled in confined spaces or at high concentration.	
Explosion Data			
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	None. None.		
Protective Equipment and Precautions for Firefighters		-contained breathing apparatus pressure-demand, N t) and full protective gear. Evacuate non-essential pe	

# 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 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



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Methods for cleaning up	sand, earth, diatomaceous e	nd then collect with non-combustible abs arth, vermiculite) and place in container (see section 13). Keep in suitable, clos	for disposal according
7. HANDLING AND STORAG	E		
Precautions for safe handling			
Advice on safe handling	When using, do not eat, drin well-ventilated areas. Do not and clothing.	k or smoke. For personal protection see breathe vapors or spray mist. Avoid co	section 8. Use only in ntact with skin, eyes
Prevention of fire and explosion	Take precautionary measure and transfer/receiving equipr	s against static discharges. Ground/bo nent.	nd containers, tanks
Hygiene measures	contact with the product. Reg recommended. Wash hands not use abrasives, solvents of	ct rules of hygiene by the personnel exp gular cleaning of equipment, work area a before breaks and immediately after ha or fuels. Do not dry hands with rags that Do not put product contaminated rags in	and clothing is ndling the product. Do have been
Conditions for safe storage, includ	ng any incompatibilities		
Technical measures/Storage conditions	container tightly closed. Kee indication of the regulation la the containers (even if they a	and animal feedingstuffs. Keep in a bun o preferably in the original container. Ot bel on the new container. Do not remov are empty). Protect from frost, heat and to avoid accidental product leakage (for lectrical contacts.	herwise reproduce all re the hazard labels of sunlight. Protect from
Materials to Avoid	Strong oxidizing agents.		
8. EXPOSURE CONTROLS/F	ERSONAL PROTECTIO	Ν	
Control parameters			
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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

**Exposure limits** 

**Engineering Measures** 

Apply technical measures to comply with the occupational exposure limits.



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Individual protection measure	es, such as personal	protective equipment		
General Information		is used in mixtures, it is recommended that you cont ipment suppliers. These recommendations apply to		
Eye/Face Protection	If splashes are	If splashes are likely to occur, wear:. Safety glasses with side-shields.		
Skin and body protection	Wear suitable	Wear suitable protective clothing. Protective shoes or boots.		
Hand Protection	instructions re supplier of the	proof gloves. Fluorinated rubber. Nitrile rubber. Plea garding permeability and breakthrough time which a gloves. Also take into consideration the specific loc used, such as the danger of cuts, abrasion, and the	are provided by the cal conditions under which	
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 contami concentrations. Respiratory protection must be provided in accordance with current regulations.		ld be worn. n airborne contaminant	
Hygiene measures	contact with th recommended not use abrasi	plication of strict rules of hygiene by the personnel ene product. Regular cleaning of equipment, work are and immediately after twes, solvents or fuels. Do not dry hands with rags the with product. Do not put product contaminated rags	ea and clothing is handling the product. Do hat have been	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and chemical properties

Color Physical State @20°C Odor Odor Threshold		amber liquid Petroleum distillates No information available	
<u>Property</u> pH Melting point/range	<u>Values</u>	<u>Remarks</u> Not applicable No information available	<u>Method</u>
Boiling point/boiling range		Not applicable	
Flash point	237 °C		Cleveland Open Cup (COC) ASTM D 92
	459 °F		Cleveland Open Cup (COC). ASTM D 92.
Evaporation rate Flammability Limits in Air		No information available No information available	Norm D 02.



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upper Lower Vapor Pressure Vapor density Relative density	- - 0.874	No information available No information available No information available No information available @ 15 °C	ASTM D 1298	
Density Water solubility Solubility in other solvents logPow Autoignition temperature Decomposition temperature	875 kg/m³	<ul> <li>@ 15 °C</li> <li>Not applicable</li> <li>No information available</li> <li>No information available</li> <li>Not applicable</li> <li>No information available</li> </ul>	ASTM D 1298	
Viscosity, kinematic Explosive properties Oxidizing Properties Possibility of hazardous reactions <u>Other information</u>	68 mm2/s Not explosive Not applicable Not applicable	@ 40 °C	ASTM D 445	
Specific Gravity Freezing Point	0.874	@ 15 °C No information available	ASTM D 1298	

10. STABILITY AND REACTIVITY		
Reactivity	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		

#### 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.



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Inhalation	Not classified. In system.	nhalation of vapors in high concentration may cau	se irritation of respiratory	
Ingestion	Not classified. In diarrhea.	ngestion may cause gastrointestinal irritation, nau	sea, vomiting and	
Delayed and immediate effects as a Acute toxicity - Product Information		ffects from short and long-term exposure		
Product Information	Product does no	ot present an acute toxicity hazard based on know	n 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
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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7	LD50 > 5000 mg/kg bw (rat - OECD 420)	LD50 > 5000 mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 5 mg/l (aerosol) (rat - OECD 403)

#### Sensitization Carcinogenicity

Not classified as a sensitizer. This product is not classified carcinogenic.

Chemical Name	ACGIH	IARC	NTP	OSHA
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7				-

Mutagenicity Reproductive toxicity Other adverse effects	Contains no ingredient listed as a mutagen. This product does not present any known or suspected reproductive hazards. Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).
Aspiration Hazard	Not classified.

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**



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#### 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
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7	EL50 (48h) > 100 mg/l (Pseudokirchnerella subcapitata - OECD 201)	LL50 (96h) > 100 mg/l (Oncorhynchus mykiss - OECD 203)	EL50 (48h) > 10000 mg/l (Daphnia magna - OECD 202)	

#### 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
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7		NOEL (21d) 10 mg/l (Daphnia magna - QSAR Petrotox)	NOEL (14/28d) > 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	

Effects on terrestrial organisms No experimental data available .

General Information No information available.

#### **Bioaccumulative potential**

Product Information	No information available.

logPow No information available

#### **Component Information**

Chemical Name	log Pow
Distillates (petroleum), hydrotreated heavy paraffinic	-
64742-54-7	

#### Mobility

Soil <u>Other adverse effects</u>	No information available
General Information	No information available



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### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment

Waste Disposal MethodsDispose of in accordance with local regulations.Contaminated packagingDispose of in accordance with local regulations.

### **14. TRANSPORT INFORMATION**

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO/IATA	Not regulated
IMDG/IMO	Not regulated
ADR/RID	Not regulated
<u>ADN</u>	Not regulated

#### **15. REGULATORY INFORMATION**

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International Inventories
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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



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#### Clean Water Act

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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.

#### **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	Х			
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 -
HMIS	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

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\*\*\* Indicates updated section

**Revision Note** 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