

## SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

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SDS #: 083097 AZOLLA HP 46

Date of the previous version: 2015-04-17 Revision Date: 2015-10-13 Version 1.01

1. IDENTIFICATION

Product identifier

Product name AZOLLA HP 46

Other means of identification

Product Code(s) 083097

Number 7J3 Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Identified uses Antiwear. 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 CHEMTREC: +1 800 424 9300 (24h)

## 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)



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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

Chemical Name	CAS-No	Weight %
Distillates (petroleum), hydrotreated heavy	64742-54-7	50-55
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 thoroughly with plenty of water, also under the eyelids. Keep eye wide open while

rinsing.

**Skin contact** Remove contaminated clothing and shoes. Wash skin with soap and water. Wash

contaminated clothing before reuse. High pressure jets may cause skin damage. In this

case, the casualty should be sent immediately to hospital.

**Inhalation** Inhalation of high concentrations of vapor or aerosols may cause irritation of the upper

respiratory tract.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a

physician or Poison Control Center immediately. 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.

**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** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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

Notes to physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide (CO2). ABC powder. Foam. Water spray or fog.

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. 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 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

Dam up. Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. 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).

## 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 the installations in order to avoid accidental emissions of product (due to seal breakage, for example) 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. When working in

confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for

breathing and wear the recommended equipment.



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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 amber Physical State @20°C liquid

Odor Petroleum distillates

Odor Threshold No information available

Property Values Remarks Method

**pH** Not applicable

Melting point/range No information available

Boiling point/boiling range Not applicable

Flash point 213 °C Cleveland Open Cup (COC)

ASTM D 92

415 °F Cleveland Open Cup (COC).

ASTM D 92.

**Evaporation rate** No information available



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Flammability Limits in Air
upper - No information available
Lower - No information available
Vapor Pressure No information available
Vapor density No information available

Relative density 0.872 @ 15 °C ASTM D 1298

Density 872 kg/m³ @ 15 °C Water solubility Insoluble

Solubility in other solvents

No information available
No information available

Autoignition temperature Not applicable

Decomposition temperatureNo information availableViscosity, kinematic46 mm2/s@ 40 °C

Viscosity, kinematic 46 mm2/s
Explosive properties Not explosive
Oxidizing Properties Not applicable
Possibility of hazardous reactions Not applicable

Other information

Freezing Point No information available

Pour point -15 °C ASTM D 97

#### 10. STABILITY AND REACTIVITY

**Reactivity** No information available.

<u>Chemical stability</u> Stable under recommended storage conditions.

**Possibility of hazardous reactions** None under normal processing.

Conditions to Avoid Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

Heat, flames and sparks. Take precautionary measures against static discharges. Strong

ASTM D 445

oxidizing agents.

<u>Incompatible Materials</u> 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

## **Acute toxicity**

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

Information on likely routes of exposure

Principle Routes of Exposure Inhalation, Ingestion, Eye contact, Skin contact.



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#### Numerical measures of toxicity

**ATEmix (oral)** 5073 mg/kg **ATEmix (dermal)** 5073 mg/kg

Inhalation

ATEmix (inhalation-dust/mist) 5.2 mg/l ATEmix (inhalation-vapor) 42.9 mg/l

#### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Distillates (petroleum), hydrotreated	LD50 > 5000 mg/kg bw (rat - OECD	LD50 > 5000 mg/kg bw (rabbit -	LC50 (4h) > 5 mg/l (aerosol) (rat -
heavy paraffinic	420)	OECD 402)	OECD 403)
64742-54-7			

#### Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**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.

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

**Sensitization** Not classified as a sensitizer.

Carcinogenicity This product is not classified carcinogenic.

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

**Mutagenicity** This product is not classified as mutagenic.

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

Target Organ Effects (STOT) None known.

Aspiration Hazard No known effect based on information supplied.

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Acute aquatic toxicity - Product Information



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No information 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)	Jan G

#### Chronic aquatic toxicity - Product Information

No information 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 information available.

Persistence and degradability

**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 Given its physical and chemical characteristics, the product generally shows low soil

mobility

Air Loss by evaporation is limited

Water Insoluble The product spreads on the surface of the water.

Other adverse effects



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General Information No information available

## 13. DISPOSAL CONSIDERATIONS

#### **Waste treatment**

Waste Disposal Methods Dispose of in accordance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

## 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



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Chronic Health HazardnoFire HazardnoSudden Release of Pressure HazardnoReactive Hazardno

#### **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.

## **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	<0.1	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			
Zinc alkyl dithiophosphate 68649-42-3		X***	X***	
Distillates (petroleum), hydrotreated light paraffinic 64742-55-8	Х			

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NFPA Health Hazard 1 Flammability 1 Instability 0 Physical and chemical hazards -

HMIS Health Hazard 1 Flammability 1 Physical Hazard 0 Personal protection X



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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:** 2015-10-13

Revision Note \*\*\* Indicates updated section

Abbreviations, acronyms

**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