

## SAFETY DATA SHEET **AZOLLA AF 46**

SDS # : 083129

Section 1. Identi	fication
Product identifier	: AZOLLA AF 46
Relevant identified uses o	f the substance or mixture and uses advised against
Identified uses	
Hydraulic oil	
Supplier's details	:
	TotalEnergies Marketing Asia-Pacific Middle East Pte. Ltd. 182 Cecil Street #27-01 Frasers Tower Singapore 069547 Tel: +65 6879 2200
	ms.ap-sds@totalenergies.com
	See section 16 to have the contact details of the local supplier
Emergency telephone number (with hours of operation)	:
-	Asia-Pacific: +65 3158 1074
Section 2. Hazar	ds identification
Classification of the	: Not classified.

substance or mixture

**GHS** label elements, including precautionary statements

Signal word	:	No signal word.
Hazard statements	:	No known significant effects or critical hazards.
Precautionary statements		
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	1	Not applicable.
Other hazards which do not	:	Prolonged or repeated contact may dry skin and cause irritation.

result in classification

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

**Additional information** : Mineral oil of petroleum origin Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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**SDS #**: 083129

**Chemical formula** 

: Not applicable.

### Section 4. First aid measures

Description of necess	sary first aid measures
Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

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Potential acute health effe	<u>ets</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	<u>otoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)



## Section 5. Fire-fighting measures

<u>Extinguishing media</u>	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: carbon monoxide carbon dioxide nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

Personal precautions, protect	iv	e equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions Methods and materials for con		Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.



## Section 7. Handling and storage

Precautions for safe handling		
Protective measures	n appropriate perso	nal protective equipment (see Section 8).
Advice on general occupational hygiene	ed, stored and proc , drinking and smo	king should be prohibited in areas where this material is essed. Workers should wash hands and face before king. Remove contaminated clothing and protective ig eating areas. See also Section 8 for additional neasures.
Conditions for safe storage, including any incompatibilities	lirect sunlight in a d ials (see Section 1 d until ready for use ed and kept uprigh ppropriate containi	local regulations. Store in original container protected lry, cool and well-ventilated area, away from incompatible 0) and food and drink. Keep container tightly closed and e. Containers that have been opened must be carefully t to prevent leakage. Do not store in unlabeled containers. nent to avoid environmental contamination. See Section 10 s before handling or use.

### Section 8. Exposure controls/personal protection

#### Control parameters

#### **Occupational exposure limits**

None.

#### **Occupational exposure limits Philippines**

Product/substance			Exposure limit values
Distillates (petroleum), hydro paraffinic	trea	ated heavy	TLV = Threshold Limit Value (Philippines, 4/2016). [Oil mist (mineral)] TLV: 5 mg/m <sup>3</sup> 8 hours.
Advisory OEL	-		: USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, 3, ACGIH (TLV) TWA 5 mg/m3 (highly refined)
Appropriate engineering controls	:	Good general v contaminants.	entilation should be sufficient to control worker exposure to airborne
Environmental exposure controls	:	they comply wit cases, fume sc	a ventilation or work process equipment should be checked to ensure h the requirements of environmental protection legislation. In some rubbers, filters or engineering modifications to the process be necessary to reduce emissions to acceptable levels.
Individual protection measur	<u>es</u>		
Hygiene measures	:	eating, smoking Appropriate tec Wash contamir	prearms and face thoroughly after handling chemical products, before g and using the lavatory and at the end of the working period. hniques should be used to remove potentially contaminated clothing. nated clothing before reusing. Ensure that eyewash stations and are close to the workstation location.
Eye/face protection	:	assessment inc gases or dusts.	complying with an approved standard should be used when a risk dicates this is necessary to avoid exposure to liquid splashes, mists, If contact is possible, the following protection should be worn, essment indicates a higher degree of protection: safety glasses with
Skin protection			
Hand protection	:		tant, impervious gloves complying with an approved standard should mes when handling chemical products if a risk assessment indicates ry.
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	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.
Body protection	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Respiratory protection	: None under normal use conditions If these are not sufficient to maintain exposure below the OEL, suitable respiratory protection must be worn (Type A/P1).

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature (20°C / 68°F) and pressure (1013 hPa) unless otherwise indicated

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Colorless.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Boiling point	: Not available.
Flash point	: Øpen cup: 232°C (449.6°F) [ASTM D 92]
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 0.863 [ASTM D 4052]
Density	: 0.863 g/cm³ [15°C] [ASTM D 4052]
Solubility(ies) Not available.	:
Miscible with water	: Not available.
Partition coefficient: n- octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): 46.1 mm²/s (46.1 cSt) [ASTM D 445]
Flow time (ISO 2431)	: Not available.
Particle characteristics	
Median particle size	: Not applicable.



## Section 10. Stability and reactivity

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Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Incompatible materials	: No specific data.
Hazardous decomposition products	: carbon monoxide carbon dioxide nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans
SADT	: Not available.

## Section 11. Toxicological information

Information on toxicologica	l effects
Acute toxicity	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Irritation/Corrosion	
Skin	: Based on available data, the classification criteria are not met.
Eyes	: Based on available data, the classification criteria are not met.
Respiratory	: Based on available data, the classification criteria are not met.
Sensitization	
Skin	: Based on available data, the classification criteria are not met.
Respiratory	: Based on available data, the classification criteria are not met.
Mutagenicity	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Teratogenicity	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Specific target organ toxic	<u>ity (single exposure)</u>
Not available.	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Specific target organ toxic	ity (repeated exposure)



Not available.		
Conclusion/Summary Aspiration hazard	: Based on available data, the classification criteria are not met.	
Not available.		
Conclusion/Summary	: Based on available data, the classification criteria are not met.	
Information on the likely routes of exposure	: Not available.	
Potential acute health effects		
Eye contact	: No known significant effects or critical hazards.	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.	
Ingestion	: No known significant effects or critical hazards.	
Symptoms related to the phy	sical, chemical and toxicological characteristics	
Eye contact	: No specific data.	
Inhalation	: No specific data.	
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking	
Ingestion	: No specific data.	
Delayed and immediate effect	s and also chronic effects from short and long term exposure	
Short term exposure		
Potential immediate	: Not available.	
effects		
effects Potential delayed effects	: Not available.	
	: Not available.	
Potential delayed effects	<ul><li>Not available.</li><li>Not available.</li></ul>	
Potential delayed effects <u>Long term exposure</u> Potential immediate		
Potential delayed effects Long term exposure Potential immediate effects	<ul><li>Not available.</li><li>Not available.</li></ul>	
Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects	<ul><li>Not available.</li><li>Not available.</li></ul>	
Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff	<ul><li>Not available.</li><li>Not available.</li></ul>	and/
Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff Not available. General	<ul> <li>Not available.</li> <li>Not available.</li> <li>cts</li> <li>Prolonged or repeated contact can defat the skin and lead to irritation, cracking</li> </ul>	and/
Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health effects Not available. General Carcinogenicity	<ul> <li>Not available.</li> <li>Not available.</li> <li>cts</li> <li>Prolonged or repeated contact can defat the skin and lead to irritation, cracking or dermatitis.</li> </ul>	and/
Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff Not available. General	<ul> <li>Not available.</li> <li>Not available.</li> <li>cts</li> <li>Prolonged or repeated contact can defat the skin and lead to irritation, cracking or dermatitis.</li> <li>No known significant effects or critical hazards.</li> </ul>	and/
Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff Not available. General Carcinogenicity Mutagenicity	<ul> <li>Not available.</li> <li>Not available.</li> <li>Cts</li> <li>Prolonged or repeated contact can defat the skin and lead to irritation, cracking or dermatitis.</li> <li>No known significant effects or critical hazards.</li> </ul>	and/
Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff Not available. General Carcinogenicity Mutagenicity Reproductive toxicity	<ul> <li>Not available.</li> <li>Not available.</li> <li>Cts</li> <li>Prolonged or repeated contact can defat the skin and lead to irritation, cracking or dermatitis.</li> <li>No known significant effects or critical hazards.</li> </ul>	and/

#### Other information

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Not available.

### Section 12. Ecological information

**Toxicity** 

Persistence/degradability	
Not available.	

<b>Bioaccumulat</b>	tive potential

Not available.

#### **Mobility in soil**

Mobility in soil

- Soil/water partition : Not available. coefficient (Koc)
  - : Siven its physical and chemical characteristics, the product generally shows low soil mobility Loss by evaporation is limited

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** The generation of waste should be avoided or minimized wherever possible. 2 Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information					
	UN	IMDG	ICAO/IATA	ADR/RID	ADN
UN/ID No	Not regulated.				
UN proper shipping name	-	-	-	-	-
Transport hazard class (es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.



## Transport in bulk according : Not available. to IMO instruments

### Section 15. Regulatory information

Singapore - hazardous chemicals under government control

None.

#### **National regulations**

This Safety Data Sheet (SDS) has been prepared according to Singapore Standard SS 586 on "Specification for Hazard Communication for Hazardous Chemicals and Dangerous Goods"

Workplace Safety and Health (General Provision) Regulations

#### **Philippines**

#### National regulations

This Safety Data Sheet (SDS) has been prepared according to EMB Memorandum Circular on "Guidance Manual for Department Administrative Order 2015-09, Rules and Procedures for the Implementation of GHS in Preparation of SDS and Labelling Requirements of Toxic Chemical Substances"

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

**Montreal Protocol** 

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.

#### Inventory list

Australia inventory (AIIC) Canada inventory (DSL/NDSL)

China inventory (IECSC) Europe inventory (EC)

- Japan inventory
- New Zealand Inventory of Chemicals (NZIoC) Philippines inventory (PICCS) Korea inventory (KECI) Taiwan Chemical Substances Inventory (TCSI) Thailand inventory Turkey inventory United States inventory (TSCA 8b)

- : All components are listed or exempted.
- : At least one component is not listed in DSL but all such components are listed in NDSL.
- : All components are listed or exempted.
- : All components are listed or exempted.
- : **JA**pan inventory (CSCL): All components are listed or exempted.
  - Japan inventory (ISHL): All components are listed or exempted.
- : Not determined.
- : Not determined.
- : All components are listed or exempted.
- : Not determined.

Vietnam inventory



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The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.

## Section 16. Other information

<u>History</u>	
Date of revision	: 2023/01/09
Date of previous revision	: 2022/05/17
Version	: 2
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations</li> </ul>

#### Procedure used to derive the classification

Classification	Justification
sified.	

#### Additional details on the supplier of the product

Total (Philippines) Corporation 7th Floor, 11th Corporate Center 11th Avenue, corner Triangle Drive, North Bonifacio, Bonifacio Global City 1634 Taguig City Philippines Tel : +63 2 88490888 Fax : +63 2 88490889

#### References

: Not available.

Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.