

### SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

## **EQUIVIS ZS 46**

**SDS #**: 083309

## Section 1. Identification

GHS product identifier	: EQUIVIS ZS 46
------------------------	-----------------

#### Relevant identified uses of the substance or mixture and uses advised against

Identified uses	
Hydraulic oil Antiwear	

#### Supplier's details

: TotalEnergies Marketing USA, Inc. 1201 Louisiana St. Suite 1800 Houston, TX 77002 Phone: 713-483-5000 ProductSafety@total.com

#### Emergency telephone number (with hours of operation)

1-866-928-0789 (For Emergencies, call CARECHEM 24/7 Domestic) 1-215-207-0061 (For Emergencies, call CARECHEM 24/7 International)

## Section 2. Hazards identification

2

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the	: Not classified.
substance or mixture	
GHS label elements	
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	: Not applicable.
Supplemental label elements	: Avoid contact with skin and clothing. Wash thoroughly after handling.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

1



### Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	% (w/w)	CAS number
Distillates (petroleum), hydrotreated heavy paraffinic	≤3	64742-54-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

There are no additional 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.

### Section 4. First aid measures

Description of necess	eary 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. Get medical attention if symptoms occur.
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

Potential acute health effe	<u>cts</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.

#### See toxicological information (Section 11)

Date of revision	: 2022/03/23	1	USA	ENGLISH	2/12



## Section 5. Fire-fighting measures

Extinguishing media	
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 Mercaptans Hydrogen sulfide sulfur oxides nitrogen oxides phosphorus oxides Zinc oxides
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, protec	equipment and emergency procedures	
For non-emergency personnel	To 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. Put on appropriate personal protective equipment.	I
For emergency responders	f specialized clothing is required to deal with the spillage, take note of any informatic Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".	
Environmental precautions	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).	
Methods and materials for co	nment and cleaning up	
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material place in an appropriate waste disposal container. Dispose of via a licensed waste lisposal 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 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 censed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.	nent



**SDS #**: 083309

## Section 7. Handling and storage

Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

### Control parameters

#### **Occupational exposure limits**

Ingredient name		Exposure limits	
Distillates (petroleum), hydrotreated heavy paraffinic		ACGIH TLV (United States, 1/2021). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2020). TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist OSHA PEL (United States, 5/2018). TWA: 5 mg/m <sup>3</sup> 8 hours.	
Advisory OEL	: Mineral oil mist: USA: OSHA ( 10 mg/m3, ACGIH (TLV) TWA	PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL \ 5 mg/m3 (highly refined)	
Appropriate engineering controls	: Good general ventilation shoul contaminants.	ld be sufficient to control worker exposure to airborne	
Environmental exposure controls	they comply with the requirem	work process equipment should be checked to ensure ents of environmental protection legislation. In some or engineering modifications to the process equipment hissions to acceptable levels.	
ndividual protection meas	ures		
Hygiene measures	eating, smoking and using the Appropriate techniques should	ce thoroughly after handling chemical products, before lavatory and at the end of the working period. I be used to remove potentially contaminated clothing. before reusing. Ensure that eyewash stations and safety station location.	
Eye/face protection	assessment indicates this is n gases or dusts. If contact is p	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.	
Skin protection			
Date of revision : 2022/03/23	1	USA ENGLISH 4/1	



Hand protection	<ul> <li>Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.</li> <li>Hydrocarbon-proof gloves</li> <li>Fluorinated rubber</li> <li>nitrile rubber</li> <li>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.</li> </ul>
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

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature ( $20^{\circ}C / 68^{\circ}F$ ) and pressure (1013 hPa) unless otherwise indicated

<u>Appearance</u>		
Physical state	Liquid.	
Color	Amber.	
Odor	Petroleum distillates	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	Not available.	
Boiling point	Not available.	
Flash point	Open cup: 218°C (424.4°F) [Cleveland Open Cup (COC)]	
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	0.858 [ASTM D 1298]	
Density	0.858 g/cm³ [15°C]	
Solubility	Insoluble in the following materials: cold water and hot water.	
Miscible with water	No.	
Partition coefficient: n- octanol/water	Not applicable.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Kinematic (40°C (104°F)): 44.5 mm²/s (44.5 cSt) [ASTM D 445	]
Flow time (ISO 2431)	Not available.	
Particle characteristics		
Median particle size	: Not applicable.	



## Section 10. Stability and reactivity

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	: Strong oxidizing agents
Hazardous decomposition products	: Carbon monoxide carbon dioxide Mercaptans Hydrogen sulfide sulfur oxides nitrogen oxides phosphorus oxides Zinc oxides

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Dreduct/outpotence	Deput	Onesian	Deee	E	Test
Product/substance	Result	Species	Dose	Exposure	Test
Distillates (petroleum),	LC50 Inhalation Dusts	Rat - Male,	>5 mg/l	4 hours	OECD 403
hydrotreated heavy paraffinic	and mists	Female			Read across
	LD50 Dermal	Rabbit - Male,	>5000 mg/kg	-	OECD 402
		Female	>5000 mg/kg		Read across
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-	OECD 401 Read across
		1			Iteau acioss
Conclusion/Summary	: Based on available data	, the classificatior	n criteria are not	t met.	
Irritation/Corrosion					
Skin	Based on available data,	the classification	criteria are not i	met.	
Eyes	Based on available data,	the classification	criteria are not i	met.	
Respiratory	Based on available data,	the classification	criteria are not i	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					
Conclusion/Summary	: Based on available data,	the classification	criteria are not i	met.	
<b>Carcinogenicity</b>					
Conclusion/Summary	: Based on available data,	the classification	criteria are not i	met.	
Reproductive toxicity					
Conclusion/Summary	: Based on available data, t	the classification	criteria are not i	met.	



#### **Teratogenicity**

## **Conclusion/Summary** : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Name		Result
Distillates (petroleum), hydro	otreated heavy paraffinic	ASPIRATION HAZARD - Category 1
Information on the likely routes of exposure	: Not available.	
Potential acute health effect	<u>ts</u>	
Eye contact	: No known significant effects or critic	al hazards.
Inhalation	: No known significant effects or critic	al hazards.
Skin contact	: Defatting to the skin. May cause sk	in dryness and irritation.
Ingestion	: No known significant effects or critic	al hazards.
Symptoms related to the ph	ysical, chemical and toxicological cha	racteristics
Eye contact	: No specific data.	
Inhalation	: No specific data.	
Skin contact	: Adverse symptoms may include the irritation dryness cracking	following:
Ingestion	: No specific data.	
Delayed and immediate effe	ects and also chronic effects from shor	rt and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate		
effects	: Not available.	
effects	: Not available.	
effects Potential delayed effects	: Not available.	
effects Potential delayed effects <u>Potential chronic health ef</u>	: Not available. f <mark>ects</mark>	defat the skin and lead to irritation, cracking and/or
effects Potential delayed effects Potential chronic health ef Not available.	: Not available. fects : Prolonged or repeated contact can o	-
effects Potential delayed effects <u>Potential chronic health ef</u> Not available. General	<ul> <li>Not available.</li> <li><u>fects</u></li> <li>Prolonged or repeated contact can or dermatitis.</li> </ul>	al hazards.

### Numerical measures of toxicity Acute toxicity estimates



N/A

. ...

## Section 12. Ecological information

Product/substance	Result	Species	Exposure	Test
Distillates (petroleum), hydrotreated heavy paraffinic	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Acute EC50 >10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Chronic NOEL >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia magna	21 days	-

### Persistence and degradability

Product/substance	Test	Result		Dose	Inoculum
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 301F	31 % - Not readily -	28 days	-	Activated sludge
Product/substance	Aquatic half-life		Photolysis		Biodegradability
Distillates (petroleum), hydrotreated heavy paraffinic	-		-		Not readily

### **Bioaccumulative potential**

Product/substance	LogK <sub>ow</sub>	BCF	Potential
Distillates (petroleum), hydrotreated heavy paraffinic	>4	-	high

#### **Mobility in soil**

Soil/water partition coefficient (Koc)	: Not available.
Mobility in soil	: Given its physical and chemical characteristics, the product generally shows low soil mobility The product is insoluble and floats on water Loss by evaporation is limited

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

## Section 13. Disposal considerations

Disposal metho	ods	: The generation of waste should be avoided or min of this product, solutions and any by-products shou requirements of environmental protection and was regional local authority requirements. Dispose of s via a licensed waste disposal contractor. Waste s the sewer unless fully compliant with the requirement Waste packaging should be recycled. Incineration when recycling is not feasible. This material and it safe way. Empty containers or liners may retain so dispersal of spilled material and runoff and contact	ald at all times comply with the te disposal legislation and any surplus and non-recyclable products hould not be disposed of untreated to ents of all authorities with jurisdiction. or landfill should only be considered s container must be disposed of in a ome product residues. Avoid
Date of revision	: 2022/03/23	1	USA ENGLISH 8/12



sewers.

## Section 14. Transport information

	DOT Classification	IMDG	ICAO/IATA
UN/ID No	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

**Additional information** 

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

U.S. Federal regulations	: TSCA 8(a) PAIR: phenol, (tetrapropenyl) deriva-tives	
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined	
	Clean Water Act (CWA) 307: zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed	
Clean Air Act Section 602 Class I Substances	: Not listed	
Clean Air Act Section 602 Class II Substances	: Not listed	
DEA List I Chemicals (Precursor Chemicals)	: Not listed	
DEA List II Chemicals (Essential Chemicals)	: Not listed	
SARA 302/304		
Composition/information	on ingredients	
No products were found.		
SARA 304 RQ	: Not applicable.	
<u>SARA 311/312</u>		
Classification	: HNOC - Defatting irritant	
Date of revision : 2022/03/23	1 USA ENGLISH	9/12

te of revision	: 2022/03/23	1	USA	ENGLISH	9/12



#### **Composition/information on ingredients**

Name	%	Classification
Distillates (petroleum), hydrotreated heavy paraffinic	≤3	ASPIRATION HAZARD - Category 1

#### State regulations

Massachusetts	: The following components are listed: OIL MIST, MINERAL; OIL MIST, MINERAL
New York	: None of the components are listed.
New Jersey	: None of the components are listed.
Pennsylvania	: None of the components are listed.
California Dron 65	

#### California Prop. 65

To the best of our knowledge, this product does not contain any substances known to the State of California to cause cancer, developmental and/or reproductive harm

#### 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)	: All components are listed or exempted.		
Canada inventory (DSL/NDSL)	: All components are listed or exempted.		
China inventory (IECSC)	: All components are listed or exempted.		
Europe inventory (EINECS/ELINCS/NLP)	: Not determined.		
Japan inventory	: Japan inventory (CSCL): At least one component is not listed.		
	Japan inventory (ISHL): At least one component is not listed.		
New Zealand Inventory of Chemicals (NZIoC)	: All components are listed or exempted.		
Philippines inventory (PICCS)	: Not determined.		
Korea inventory (KECI)	: Not determined.		
Taiwan Chemical Substances Inventory (TCSI)	: All components are listed or exempted.		
Thailand inventory	: At least one component is not listed.		
Turkey inventory	: Not determined.		
United States inventory (TSCA 8b)	: All components are listed or exempted.		
Vietnam inventory	: Not determined.		

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

### Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

	Classification	Justification
Not classified.		
History		
Date of revision	: 2022/03/23	
Date of previous revision	: No previous validation	
Version	: 1	
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification ar IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coeffic MARPOL = International Convention for the Prevention as modified by the Protocol of 1978. ("Marpol" = marine N/A = Not available SGG = Segregation Group UN = United Nations	cient of Pollution From Ships, 1973
References	: Not available.	
Indicates information that	has changed from previously issued version.	

Date of revision         : 2022/03/23         1         USA         ENGLISH         11/2
--



#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named 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.

1