

SAFETY DATA SHEET

According to Safe Work Australia Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals

EQUIVIS AF 46

SDS #: 081296

Section 1. Identifie		
Product identifier	: EQUIVIS AF 46	
Relevant identified uses of t	he substance or mixtu	re and uses advised against
Identified uses		
Hydraulic oil		
Uses advised against		Reason
Not applicable.		
Supplier's details	:	
		eting Australia Pty Ltd (ABN 15 149 501 922) ke Street, Melbourne,
	Victoria 3000 AUST	
	Tel: +61 (3) 9861 8	
	ms.ap-sds@totalen	ergies.com
		eting Asia-Pacific Middle East Pte. Ltd.
	182 Cecil Street #27-01 Frasers Tov	Nor
	Singapore 069547	vei
	Tel: +65 6879 2200	
	ms.ap-sds@totalen	ergies.com
Emergency telephone	:	
number (with hours of operation)		
	Australia: +61 2 80	
	Asia-Pacific: +65 31	158 1074
Section 2. Hazard	(s) identificatio	on
Classification of the	: Not classified.	
substance or mixture		
GHS label elements		
Signal word	: No signal word.	
Hazard statements	-	ant effects or critical hazards.
Precautionary statements	U	
Prevention	: Not applicable.	
Response	: Not applicable.	
Storage	: Not applicable.	
Disposal	: Not applicable.	
Supplemental label	: Not applicable.	

Date of revision

elements



Other hazards which do not : None known. result in classification

Section 3. Composition and ingredient information

Substance/mixture

: Mixture

Ingredient name	% (w/w)	CAS number
₱ stillates (petroleum), hydrotreated heavy paraffinic	≥90	64742-54-7
Distillates (petroleum), hydrotreated heavy paraffinic	≤3	64742-54-7

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 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.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
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 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.
Over-exposure signs/sympto	i <u>ms</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 medical attention and special treatment needed, if necessary

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , 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 Silicon 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, protective 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. 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	:	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 containment and cleaning up		
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

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.
	emergency contact information and Section 13 for Waste disposal.

Section 7. Handling and storage

Precautions for safe handling	g	
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 and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits	
₱istillates (petroleum), hyd Distillates (petroleum), hyd	refined mineral] TWA: 5 mg/m³ 8 hours. Form: mist	
Advisory OEL	 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) 	
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.	
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	
Individual protection meas	<u>res</u>	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	

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Eye/face protection	: 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	
Hand protection	 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. 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	 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.
Other skin protection	 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.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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

: Liquid. [limpid]
: 🗡ellow. to Amber.
: Characteristic.
: Not available.
Not applicable.
: 🔽 echnically not possible to measure
: <mark>≠</mark> 42°C (-43.6°F)
: ₱300°C (>572°F) [ISO 3405]
: Øpen cup: 240°C (464°F) [ISO 2592]
: Not applicable.
: Kower: 0.9% Upper: 7%
: Ø .013 kPa (<0.1 mm Hg) [room temperature] Not applicable. [50°C]
: ▶2 [Air = 1]
: Ø.861 [ISO 12185]
: Ø.861 g/cm³ [15°C] [ISO 12185]
· : · · · · · · · · · · · · · · · · · ·
Result
Not soluble



SDS #	:	081296
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Miscible with water	: No.
Partition coefficient: n- octanol/water	: Not applicable.
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: Not applicable.
Viscosity	: Kinematic (40°C (104°F)): 46 mm²/s (46 cSt) [ISO 3104]
Flow time (ISO 2431)	1
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 Silicon Dioxide nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans

Section 11. Toxicological information

Information on toxicological effects

Product/substance	Result	Species	Dose	Exposure	Test
Ďístillates (petroleum),	LC50 Inhalation Dusts	Rat	>5 mg/l	4 hours	OECD 403
hydrotreated heavy paraffinic	and mists		-		Read across
	LD50 Dermal	Rabbit	>5000 mg/kg	-	OECD 402
					Read across
	LD50 Oral	Rat - Male,	>5000 mg/kg	-	OECD 401
		Female			Read across
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			Read across
	LD50 Oral	Rat - Male,	>5000 mg/kg	-	OECD 401
		Female			Read across
Conclusion/Summary	: Based on available da	ta, the classificat	tion criteria are	not met.	



Irritation/Corrosion			
Skin	: Based on available data, the clas	sification 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 clas	sification criteria are not met.	
Respiratory	: Based on available data, the clas	sification criteria are not met.	
Mutagenicity			
Conclusion/Summary	: Based on available data, the clas	sification criteria are not met.	
Carcinogenicity			
Conclusion/Summary	: Based on available data, the clas	sification criteria are not met.	
Reproductive toxicity			
Conclusion/Summary	: Based on available data, the clas	sification criteria are not met.	
Teratogenicity			
Conclusion/Summary	: Based on available data, the clas	sification criteria are not met.	
Specific target organ toxic	<u>ity (single exposure)</u>		
Conclusion/Summary	: Based on available data, the clas	sification criteria are not met.	
Specific target organ toxic	<u>ity (repeated exposure)</u>		
Conclusion/Summary	: Based on available data, the clas	sification criteria are not met.	
Aspiration hazard			
Name		Result	
Distillates (petroleum), hydro	otreated heavy paraffinic	ASPIRATION HAZARD - Category 1	
Conclusion/Summary	: Based on available data, the clas	sification criteria are not met.	
Information on the likely routes of exposure	: Not available.		
Potential acute health effect	<u>'S</u>		
Eye contact	: No known significant effects or cr	itical hazards.	
Inhalation	: No known significant effects or cr	itical hazards.	
Skin contact	: Defatting to the skin. May cause	skin dryness and irritation.	
Ingestion	: No known significant effects or cr	itical hazards.	
Symptoms related to the ph	ysical, chemical and toxicological c	haracteristics	
Eye contact	: No specific data.		
Inhalation	: No specific data.		
Skin contact	: Adverse symptoms may include t irritation dryness cracking	he following:	
Ingestion	: No specific data.		
Delayed and immediate effe	cts and also chronic effects from sh	nort and long term exposure	
Short term exposure			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Date of revision	: 2023/06/06	Australia ENGLISH Version : 1.02 7/11	



<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

N/A

Other information

Not available.

Section 12. Ecological information

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Toxicity

Product/substance	Result	Species	Exposure	Test
♥istillates (petroleum), hydrotreated heavy paraffinic	Acute LL50 >100 mg/l	-	72 hours	OECD 201
	Acute LL50 >10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Chronic NOEL >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Chronic NOEL 10 mg/l	Crustaceans - Daphnia magna	21 days	-
	Chronic NOEL >1000 mg/l	Fish - Oncorhynchus mykiss	21 days	-
Distillates (petroleum), hydrotreated heavy paraffinic	Acute EC50 >100 mg/l	-	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
Sistillates (petroleum), hydrotreated heavy paraffinic	OECD 301F	31 % - Not readily - 28 days	-	Activated sludge
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 301F	31 % - Not readily - 28 days	-	Activated sludge

Date of revision	: 2023/06/06	Australia	ENGLISH	Version	:1.02	8/11



SDS #: 081296

Product/substance	Aquatic half-life	Photolysis	Biodegradability
Sistillates (petroleum), hydrotreated heavy paraffinic	-	-	Not readily
Distillates (petroleum), hydrotreated heavy paraffinic	-	-	Not readily

Bioaccumulative potential

Product/substance	LogKow	BCF	Potential
₱istillates (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 methods : The generation of waste should be avoided or minimized wherever possible. 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

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

Date of revision



Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

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)

Vietnam inventory

- : 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.
- : Japan inventory (CSCL): All components are listed or exempted.
- Japan inventory (ISHL): Not determined.
- : All components are listed or exempted.
- : Not determined.
- : Not determined.
- : All components are listed or exempted.
- : 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. Any other relevant information

<u>History</u>	
Date of revision	: 2023/06/06
previous revision date	: 2022/11/18
Version	: 1.02
Key to abbreviations	 ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road 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 SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations

Procedure used to derive the classification

Classification	Justification
Not classified.	

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.