

SAFETY DATA SHEET DACNIS VS 46

SDS #:C3GQVK0QC

Section 1. Identification **Product identifier** : DACNIS VS 46 Relevant identified uses of 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** ŝ number (with hours of operation) Asia-Pacific: +65 3158 1074

Section 2. Hazards identification

Classification of the substance or mixture

: Not classified.

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	: 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

Ingredient name	% (w/w)	CAS number
2,6-di-tert-butylphenol	≤0.3	128-39-2

Additional information

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

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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.

Chemical formula

: Not applicable.

Section 4. First aid measures

Description of necess	ary 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.
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	<u>effects</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/s	symptoms
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	e 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. 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

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 nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans 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, 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. 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		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	nta	ainment 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 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 persor	nal protective equipment (see Section 8).
Advice on general occupational hygiene	ed, stored and proce , drinking and smok	ting should be prohibited in areas where this material is essed. Workers should wash hands and face before ing. Remove contaminated clothing and protective g eating areas. See also Section 8 for additional easures.
Conditions for safe storage, including any incompatibilities	lirect sunlight in a d ials (see Section 10 d until ready for use ed and kept upright ppropriate containm	local regulations. Store in original container protected ry, cool and well-ventilated area, away from incompatible) and food and drink. Keep container tightly closed and Containers that have been opened must be carefully to prevent leakage. Do not store in unlabeled containers. eent to avoid environmental contamination. See Section 10 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), hydrotreated heavy paraffinic		ated heavy	TLV = Threshold Limit Value (Philippines, 4/2016). [Oil mist (mineral)] TLV: 5 mg/m ³ 8 hours.		
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 measur	es				
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.			
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	-		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	 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	: 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	1	Open cup: 230°C (446°F) [ASTM D 92]		
Evaporation rate	:	Not available.		
Flammability (solid, gas)	1	Not available.		
Lower and upper explosive (flammable) limits	:	Not available.		
Vapor pressure	:	: Not available.		
Vapor density	1	: Not available.		
Relative density	1	: 0.865 [ASTM D 4052]		
Density	1	: 0.865 g/cm³ [15°C] [ASTM D 4052]		
Solubility(ies)	:			
Media		Result		
cold water hot water		Not soluble Not soluble		
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)): 46.7 mm²/s (46.7 cSt) [ASTM D 445]		
Flow time (ISO 2431)	:	Not available.		
Particle characteristics				
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Median particle size	: Not applicable.
Section 10. Stabil	ity 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	: No specific data.
Hazardous decomposition products	: carbon monoxide carbon dioxide nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans Zinc oxides
SADT	: Not available.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/substance	Result	Species	Dose	Exposure	Test
2,6-di-tert-butylphenol	LD50 Dermal LD50 Oral	Rat - Male,	>5000 mg/kg >5000 mg/kg Single dose		- OECD 401 401

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

Irritation/Corrosion

Product/substance	Result		Species	Score	Exposure	Test
2,6-di-tert-butylphenol	Eyes - Cornea	opacity	Rabbit	0	-	OECD 405 405
	Skin - Modera	te irritant	Rat	-	4 hours 0.5 Ml	OECD 404 404
Skin	: Based on a	vailable data	a, the classifica	ation criteria	are not met.	
Eyes	: Based on a	vailable data	a, the classifica	ation criteria a	are not met.	
Respiratory	: Based on available data, the classification criteria are not met.					
<u>Sensitization</u>						
Product/substance	Route of exposure	Specie	S	Re	sult	
2,6-di-tert-butylphenol	skin	Guinea	a pig	No	ot sensitizing	



Respiratory

: Based on available data, the classification criteria are not met.

Mutagenicity

Product/substance	Test		Experiment		Result	
2,6-di-tert-butylphenol	OECD 471 4 OECD 473 OECD 476	471	Experiment: In Subject: Bacteri Experiment: In Subject: Mamm Cell: Somatic Experiment: In Subject: Mamm	ia vitro nalian-Animal vitro	Negative Negative Negative	
			Cell: Somatic			
Conclusion/Summary	: Based on	available da	ta, the classificat	ion criteria are not m	et.	
Carcinogenicity Conclusion/Summary	. Based on	available da	ta the classificat	ion criteria are not m	ot	
Reproductive toxicity	. Daseu un				el.	
Product/substance	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
2,6-di-tert-butylphenol	-	Negative	Negative	Rat - Male, Female	Oral	-
Conclusion/Summary	: Based on	available da	ta, the classificat	ion criteria are not m	et.	1
Conclusion/Summary Specific target organ toxic Not available.			ta, the classificat	ion criteria are not m	et.	
Conclusion/Summary	: Based on	available da	ta, the classificat	ion criteria are not m	et.	
Specific target organ toxic	tity (repeated e	exposure)				
Not available.						
Conclusion/Summary Aspiration hazard Not available.	: Based on	available da	ta, the classificat	ion criteria are not m	et.	
Conclusion/Summary	: Based on	: Based on available data, the classification criteria are not met.				
Information on the likely routes of exposure	: Not availa	: Not available.				
Potential acute health effec	<u>ts</u>					
Eye contact		Ū	effects or critical h			
Inhalation		-	effects or critical h			
Skin contact	-		•	dryness and irritation		
Ingestion	: NO KNOWN	i significant e	effects or critical h	nazaros.		
Symptoms related to the ph	iysical, chemic	cal and toxi	cological charad	<u>teristics</u>		
Eye contact	: No specif	ic data.				
Inhalation	: No specif	ic data.				
Skin contact	: Adverse s irritation dryness cracking	symptoms m	ay include the fol	lowing:		



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: No specific data.

Delayed and immediate effect	ts and also chronic effects from short 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.
Potential delayed effects	: Not available.

Potential chronic health effects

Product/substance	Result	Species	Dose	Exposure	
2,6-di-tert-butylphenol	Sub-chronic NOAEL Oral	Rat - Male, Female	100 mg/kg NOAEL	days	
General	: Prolonged or repeated con or dermatitis.	ntact can defat the s	kin and lead to irri	ation, cracking and/	
Carcinogenicity	: No known significant effect	cts or critical hazards	S.		
Mutagenicity	: No known significant effect	: 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
2,6-di-tert-butylphenol	Acute EC50 1.2 mg/l Acute EC50 0.45 mg/l Acute LC50 1 mg/l Chronic NOEC 0.035 mg/l Chronic NOEC 0.3 mg/l	Fish	72 hours 48 hours 96 hours 21 days 28 days	- - - -

Persistence/degradability

Product/substance	Aquatic half-life	Photolysis	Biodegradability
2,6-di-tert-butylphenol	-	-	Not readily

Bioaccumulative potential

Product/substance	LogKow	BCF	Potential
2,6-di-tert-butylphenol	4.48	660	high

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<u>Mobility in soil</u>	
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. Disp	osal 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

	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)	: 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 (EC)	: All components are listed or exempted.		
Japan inventory	 Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted. 		
New Zealand Inventory of Chemicals (NZIoC)	: All components are listed or exempted.		
Philippines inventory (PICCS)	: All components are listed or exempted.		
Korea inventory (KECI)	: All components are listed or exempted.		
Taiwan Chemical Substances Inventory (TCSI)	: All components are listed or exempted.		
Thailand inventory	: Not determined.		
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

<u>History</u>	
Date of revision	: 2023/03/02
previous revision date	: No previous validation
Version	: 1
Key to abbreviations	: 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

Procedure used to derive the classification

Classification	Justification
Not classified.	

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

: Not available.

Indicates information that has changed from previously issued version.

Notice to reader

References

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.