

SAFETY DATA SHEET **QUARTZ INEO MC3 5W-30**

SDS # : 082906

Section 1. Identification		
Product identifier	: QUARTZ INEO MC3 5W-30	
Relevant identified uses o	f the substance or mixture and uses advised against	
Identified uses		
Engine 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	
Emergency telephone number (with hours of operation)	:	
	Asia-Pacific: +65 3158 1074	
Section 2. Hazar	ds identification	
Classification of the substance or mixture	: Not classified.	
GHS label elements, inclu	ding 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		

result in classification

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	% (w/w)	CAS number
Distillates (petroleum), hydrotreated heavy paraffinic tris(branched-alkyl) borate	≥25 - ≤50 <1	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



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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	sary 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. 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

most important sympto	mis/encets, deute and delayed	
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/	<u>symptoms</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.



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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 dioxide. carbon monoxide Hydrogen sulfide Mercaptans nitrogen oxides (NO, NO ₂ etc.) phosphorus oxides sulfur 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, protect	ve 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 co	tainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mo 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 sewer 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 eart 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	: 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.



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Conditions for safe storage, including any incompatibilities	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		finic	Workplace Safety and Health Act (Singapore, 2/2006). PEL (long term): 5 mg/m ³ 8 hours. Form: Mist PEL (short term): 10 mg/m ³ 15 minutes. Form: Mist	
Occupational exposure lin	nits Philippines			
Product/substance		Exposu	Exposure limit values	
Distillates (petroleum), hydrotreated heavy paraffinic Distillates (petroleum), hydrotreated heavy paraffinic		TLV: 5 TLV = T	hreshold Limit Value (Philippines, 4/2016). mg/m³ 8 hours. hreshold Limit Value (Philippines, 4/2016). mg/m³ 8 hours.	
Advisory OEL			SHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, (TLV) TWA 5 mg/m3 (highly refined)	
Appropriate engineering controls	: Good general v contaminants.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.		
Environmental exposure controls	they comply wit cases, fume sc	h the requ rubbers, f	on or work process equipment should be checked to ensure uirements of environmental protection legislation. In some ilters or engineering modifications to the process sary to reduce emissions to acceptable levels.	

Individual protection measure	<u>S</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.
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.



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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

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

Appearance

<u>Appoulation</u>		
Physical state	1	Liquid.
Color	1	Orange. [Dark]
Odor	1	Characteristic.
Odor threshold	:	Not available.
рН	1	Not available.
Melting point/freezing point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Open cup: 241°C (465.8°F) [ASTM D 92]
Evaporation rate	1	Not available.
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	1	Not available.
Vapor density	:	Not available.
Relative density	1	0.852 [ASTM D 4052]
Density	1	0.852 g/cm³ [15°C] [ASTM D 4052]
Solubility	1	Insoluble in the following materials: cold water and hot water.
Miscible with water	:	No.
Partition coefficient: n-	:	Not applicable.
octanol/water		
Auto-ignition temperature	1	Not available.
Decomposition temperature	:	Not available.
Viscosity	1	Kinematic (40°C (104°F)): 69.4 mm²/s (69.4 cSt) [ASTM D 445]
Flow time (ISO 2431)	1	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.

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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 dioxide. carbon monoxide Hydrogen sulfide Mercaptans nitrogen oxides (NO, NO ₂ etc.) phosphorus oxides sulfur oxides Zinc oxides
SADT	: Not available.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/substance	Result	Species	Dose	Exposure	Test	
Distillates (petroleum),	LC50 Inhalation D	usts Rat - Male,	>5 mg/l	4 hours	OECD 403	
hydrotreated heavy paraffinic		Female			Read across	
	LD50 Dermal	Rabbit -	>5000 mg/kg	-	OECD 402	
		Male, Female			Read across	
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-	OECD 401 Read across	
tris(branched-alkyl) borate	LD50 Dermal	Rat	>2000 mg/kg		OECD 402	
	ED00 Dennar	Nat	2000 mg/kg		Acute	
					Dermal	
					Toxicity	
	LD50 Oral	Rat	>2000 mg/kg	-	OECD 420	
					Acute Oral	
					Toxicity -	
					Fixed Dose Method	
Conclusion/Ourmony		ble data the classificat	lion oritorio oro	n ot moot	mounou	
Conclusion/Summary	: Based on availa	ble data, the classificat	tion criteria are	not met.		
rritation/Corrosion						
Skin	: Based on availa	ble data, the classificat	tion criteria are	not met.		
Eyes	: Based on availa	ble data, the classificat	tion criteria are	not met.		
Respiratory	: Based on availa	ble data, the classificat	tion criteria are	not met.		
Sensitization						
Product/substance	Route of exposure	Species	Resu	lt		
tris(branched-alkyl) borate	skin	Mouse	Sensi	tizing		
Skin	: Based on available data, the classification criteria are not met.					

tris(branched-alkyl) borate	skin	Mouse	Sensitizing			
Skin	: Based on avail	: Based on available data, the classification criteria are not met.				
Respiratory	: Based on avail	Based on available data, the classification criteria are not met.				
<u>Mutagenicity</u>						
Conclusion/Summary	: Based on avail	able data, the classification crite	ria are not met.			
Carcinogenicity						
Conclusion/Summary	: Based on avail	able data, the classification crite	ria are not met.			
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-		002000	
Reproductive toxicity	. Based on evailable data the eleccification criteria are not mot		
Conclusion/Summary	: Based on available data, the classification criteria are not met.		
Teratogenicity			
Conclusion/Summary	: Based on available data, the classification criteria are not met.		
Specific target organ toxic Not available.	<u>city (single exposure)</u>		
Specific target organ toxic	<u>city (repeated exposure)</u>		
Not available.			
Aspiration hazard			
Name	Result		
Distillates (petroleum), hyd	rotreated heavy paraffinic ASPIRATION HAZARD - Catego	ory 1	
		-	
nformation on the likely routes of exposure	: Not available.		
Potential acute health effec	<u>its</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.		
Symptoms related to the pl	nysical, 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.		
ingootion			
Delaved and immediate effo	ects and also chronic effects from short and long term exposure		
Short term exposure			
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 e	ffects		
Not available.			
General	: Prolonged or repeated contact can defat the skin and lead to irritation, c	racking and	



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Carcinogenicity	: During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.
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

Section 12. Ecological information

<u>Toxicity</u>				
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	-
tris(branched-alkyl) borate	Acute EC50 21 mg/l	Algae - Selenastrum capricornutum	72 hours	-
	Acute EC50 5.7 mg/l	Daphnia - Daphnia magna	48 hours	-
	Acute LC50 6.4 mg/l	Fish	96 hours	-
	Chronic NOEC 1.9 mg/l	Daphnia - Daphnia magna	21 days	-

Persistence/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	5	Biodegradability
Distillates (petroleum), hydrotreated heavy paraffinic tris(branched-alkyl) borate	-		-		Not readily Readily

Bioaccumulative potential

Product/substance	LogKow	BCF	Potential
Distillates (petroleum), hydrotreated heavy paraffinic	>4	-	high

Mobility in soil



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Caption 12 Dianonal considerations				
Other adverse effects	: No known significant effects or critical hazards.			
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			
Soil/water partition coefficient (Koc)	: Not available.			

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 nonrecyclable 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

Date of revision : 2022



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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, exempted, or notified.		
Canada inventory (DSL/NDSL)	: All components are listed or exempted.		
China inventory (IECSC)	: All components are listed, exempted, or notified.		
Europe inventory (EINECS/ELINCS/NLP)	: All components are listed or exempted.		
Japan inventory	 Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): Not determined. 		
New Zealand Inventory of Chemicals (NZIoC)	: All components are listed, exempted, or notified.		
Philippines inventory (PICCS)	: All components are listed, exempted, or notified.		
Korea inventory (KECI)	: Not determined.		
Taiwan Chemical Substances Inventory (TCSI)	: All components are listed, exempted, or notified.		
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

History

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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 = Intermediate Bulk Container
	IMDG = 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

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.