

Section 1. Identification

Product identifier : EQUIVIS ZS 46

Recommended use of the chemical and restrictions on use

Identified uses

Hydraulic oil

Supplier's details :

TotalEnergies Lubrifiants
562 Avenue du Parc de L'île
92029 Nanterre Cedex FRANCE
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rm.msds-lubs@totalenergies.com

TotalEnergies Marketing Services
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24 cours Michelet
92800 PUTEAUX
FRANCE
Tel : +33 (0)1 41 35 40 00
Fax : +33 (0)1 41 35 82 88

See section 16 to have the contact details of the local supplier

Emergency telephone number : +44 1235 239671
To speak to an interlocutor in Portuguese or Spanish: +44 1235 239670

Section 2. Hazard identification

Classification of the substance or mixture : Not classified.

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.

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

**Section 3. Composition/information on ingredients**

Substance/mixture : Mixture

Ingredient name	% (w/w)	Identifiers
Distillates (petroleum), hydrotreated light paraffinic	≤3	64742-55-8
2,6-di-tert-butylphenol	<0.25	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

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 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. Continue to rinse for at least 10 minutes. 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. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. 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.

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/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.



Section 4. First aid measures

- 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. 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, CO₂, 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
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".



Section 6. Accidental release measures

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 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 : 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 UN

Product/substance	Exposure limit values
Distillates (petroleum), hydrotreated light paraffinic	ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction

Biological exposure indices UN

No exposure indices known.

Occupational exposure limits Egypt

Product/substance	Exposure limit values
None.	

Biological exposure indices Egypt

**Section 8. Exposure controls/personal protection**

No exposure indices known.

Occupational exposure limits Lesotho

Product/substance	Exposure limit values
None.	

Biological exposure indices Lesotho

No exposure indices known.

Occupational exposure limits South Africa

Product/substance	Exposure limit values
Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
Distillates (petroleum), solvent-refined heavy paraffinic	ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
Distillates (petroleum), hydrotreated light paraffinic	ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction

Biological exposure indices South Africa

No exposure indices known.

- 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.
- 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)

Individual protection measures

- 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.



Section 8. Exposure controls/personal protection

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.

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 and safety characteristics

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

Appearance

- Physical state** : Liquid.
- Color** : Clear.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point/freezing point** : Technically not possible to measure
- Pour point** : -39°C (-38.2°F)
- Boiling point** : >300°C (>572°F) [ISO 3405]
- Flash point** : Open cup: 215°C (419°F) [ISO 2592]
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not applicable.
- Lower and upper explosive (flammable) limits** : Lower: 0.9%
Upper: 7%
- Vapor pressure** : <0.013 kPa (<0.1 mm Hg) [room temperature]
Not applicable. [50°C]
- Vapor density** : >2 [Air = 1]
- Relative density** : 0.84 to 0.89 [ISO 12185]
- Density** : 0.84 to 0.89 g/cm³ [15°C] [ISO 12185]
- Solubility(ies)** :

Media	Result
water	Not soluble

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)): 41.4 to 50.6 mm²/s (41.4 to 50.6 cSt) [ISO 3104]



Section 9. Physical and chemical properties and safety characteristics

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 : No specific data.

Hazardous decomposition products : carbon monoxide
carbon dioxide
Silicon Dioxide
nitrogen oxides
phosphorus oxides
sulfur oxides
Hydrogen sulfide
Mercaptans
Zinc oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/substance	Result	Species	Dose	Exposure	Test
Distillates (petroleum), hydrotreated light paraffinic	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours	OECD 403
	LD50 Dermal	Rabbit	>5000 mg/kg	-	OECD 402
2,6-di-tert-butylphenol	LD50 Oral	Rat	>5000 mg/kg	-	OECD 420
	LD50 Dermal	Rabbit	>5000 mg/kg	-	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-	OECD 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
	Skin - Primary dermal irritation index (PDII)	Rabbit	3.8	4 hours	OECD 404

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

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

**Section 11. Toxicological information**

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

Sensitization

Product/substance	Route of exposure	Species	Result
2,6-di-tert-butylphenol	skin	Guinea pig	Not sensitizing

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

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

Mutagenicity

Product/substance	Test	Experiment	Result
2,6-di-tert-butylphenol	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 475	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 476	Experiment: In vitro Subject: Mammalian-Animal	Negative
	-	Experiment: In vitro Subject: Mammalian-Animal	Negative

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

Carcinogenicity

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

Reproductive toxicity

Product/substance	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
2,6-di-tert-butylphenol	Negative	Negative	Negative	Rat - Male, Female	Oral	-

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 toxicity (single exposure)

Not available.

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

Specific target organ toxicity (repeated exposure)

Not available.

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

Aspiration hazard

Name	Result
Distillates (petroleum), hydrotreated light paraffinic	ASPIRATION HAZARD - Category 1

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

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.



Section 11. Toxicological information

- Skin contact** : Defatting to the skin. May cause skin dryness and irritation.
- Ingestion** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
dryness
cracking
- Ingestion** : No specific data.

Delayed and immediate effects 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 effects

Product/substance	Result	Species	Dose	Exposure
2,6-di-tert-butylphenol	Sub-acute NOAEL Oral	Rat - Male, Female	100 mg/kg	-
	Sub-chronic NOAEL Oral	Rat - Male, Female	270 mg/kg	-

- General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
- 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****Toxicity**

Product/substance	Result	Species	Exposure	Test
Distillates (petroleum), hydrotreated light paraffinic	Acute EC50 >100 mg/l	Algae - <i>Pseudokirchnerella subcapitata</i>	48 hours	OECD 201
	Acute EC50 >10000 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours	OECD 202
	Chronic NOEL 10 mg/l	Daphnia - <i>Daphnia magna</i>	21 days	OECD 211
	Chronic NOEL >1000 mg/l	Fish - <i>Oncorhynchus mykiss</i>	21 days	-
2,6-di-tert-butylphenol	Acute EC50 1.2 mg/l Fresh water	Algae - <i>Pseudokirchneriella subcapitata</i>	96 hours	EPA 797.1050
	Acute EC50 0.45 mg/l	Crustaceans - <i>Daphnia Magna</i>	48 hours	STDMETH, ASTM and USEPA
	Acute IC50 >1000 mg/l	Micro-organism	3 hours	OECD 209
	Acute LC50 1.4 mg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours	STDMETH, ASTM and USEPA
	Chronic NOEC 0.64 mg/l Fresh water	Algae - <i>Pseudokirchneriella subcapitata</i>	96 hours	ASTM E 729-80 EPA 797.1050
Chronic NOEC 0.035 mg/l Fresh water	Crustaceans - <i>Daphnia magna</i>	21 days	OECD 211	

Persistence and degradability

Product/substance	Test	Result	Dose	Inoculum
2,6-di-tert-butylphenol	OECD 302C	12 % - Not readily - 28 days	-	Activated sludge

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

Bioaccumulative potential

Product/substance	LogK _{ow}	BCF	Potential
2,6-di-tert-butylphenol	4.48	660	High

Mobility in soilSoil/water partition coefficient (K_{oc})

: 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

	ADR	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.

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 to IMO instruments : Not available.

Section 15. Regulatory information**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.

**Section 15. Regulatory information****Inventory list**

Australia inventory (AIIIC)	: All components are listed or exempted.
Canada inventory (DSL/NDL)	: 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)	: Not determined.
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**History**

Date of revision	: 2023/07/24
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 = 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

TotalEnergies Marketing Botswana (Pty) Ltd Kgomokasitwa Road, Gaborone West Gaborone / BOTSWANA	TotalEnergies Marketing Burkina 1080, Avenue Kwame N'Krumah Ouagadougou / BURKINA FASO	TotalEnergies Marketing Cameroun 589, Boulevard de la Liberté Akwa - Douala B.P. 4048 Douala - Cameroun Téléphone : (237) 233 42 63 41	TOTAL CENTRAFRIQUE Avenue de l'Indépendance, BP 3295 Bangui / REPUBLIQUE CENTRAFRICAINE
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Section 16. Other information

TotalEnergies Marketing Congo S.A. Rue de la Corniche Brazzaville / CONGO	TotalEnergies Marketing Côte d'Ivoire Immeuble Rive Gauche, 100 Rue des brasseurs, Zone 3 01 BP 336 - Abidjan – CÔTE D'IVOIRE	TotalEnergies Marketing Egypt Corner St 254/206 Degla Maadi Cairo / EGYPT	TotalEnergies Marketing Ethiopia S.C. Sub City - Nefas Silk Lafto PO Box 1462 - Addis Abeba / ETHIOPIA Tel : 251 114 651 125
TotalEnergies Marketing Guinea Ecuatorial Rotonda Estación de Servicios BP 647 Malabo / GUINEA ECUATORIAL Tel : +240 350 091 800	TotalEnergies Marketing Kenya PLC Regal Plaza, 6th Avenue Parklands, Limuru Road P.O. BOX 30736, 00100- NAIROBI – KENYA	TOTAL LESOTHO (PTY) LTD Motooane Road, Industrial area Maseru / LESOTHO	TOTAL LIBERIA Clara town, Busrod Island Monrovia / LIBERIA
TotalEnergies Marketing Madagasikara SA Immeuble Fitaratra, Ankorondrano 101 - Antananarivo - MADAGASCAR	TotalEnergies Marketing Malawi Ltd Private Bag 5125 Limbe, Blantyre Malawi	TotalEnergies Marketing Mali Hamdallaye ACI 2000 Rue 358 Immeuble Dakolo Bamako / MALI	TotalEnergies Marketing Gabon Blvd.de la République Libreville / GABON
TotalEnergies Marketing Middle East FZE Burjuman Business Tower, 11th Floor Sheikh Khalifa Bin Zayed Road Dubai P.O. Box 14871 U.A.E Tel: +971 4 709 50 00 Fax: +971 4 351 91 54	TotalEnergies Marketing Tchad Parc des Hydrocarbures Route de Mara N'Djamena / TCHAD Tel : +235 22 52 92 09	TotalEnergies Marketing Maroc 146, Blvd. Mohamed Zerkoutni Casablanca / MAROC	TOTAL MAURITANIE E nord- Lot n°110 Nouakhott / MAURITANIE
TotalEnergies Marketing Mauritius Ltd Chaussée Tromelin, Quai D Port-Louis, MAURICE Tel : +230 207 56 00	TotalEnergies Marketing Mozambique SA Av. Sociedade de Geografia n° 83 Maputo / MOZAMBIQUE Tel : +258 21 30 72 30	TotalEnergies Marketing Namibia (Pty) Ltd 5 Otto Nitzsche Street, Klein Windhoek Windhoek / NAMIBIA	TOTAL NIGER Route de l'aéroport Niamey / NIGER
TotalEnergies Marketing Ghana PLC 25 Liberia Road, P.O. BOX GP553 Accra / GHANA Tel : +233 302 611 530	TotalEnergies Marketing RDC SA 24, Avenue CADECO Place des Evolués KINSHASA / GOMBE	TotalEnergies Marketing Sénégal Route de l'aéroport, sur la station TotalEnergies de Ngor BP 355 Dakar / SENEGAL	TOTAL SIERRA LEONE Total house, 41 Main motor Road, Brookfields Freetown / SIERRA LEONE
TotalEnergies Marketing South Africa (Pty) Ltd 3 Biermann Avenue Rosebank 2196 PO Box 579, Saxonwold, 2132 South Africa Tel: +27 860 111 111	TotalEnergies Marketing Eswatini (PTY) Ltd King Sobhuza 2nd Avenue, Industrial Sites Manzini / ESWATINI	TotalEnergies Marketing Tanzania Total House – Msasani Peninsula Haile Selassie road Plot no. 1720, PO Box 1503 Dar es salaam, Tanzania Tel +255222927700	TotalEnergies Marketing Togo 69, Blvd. de la Paix Lomé / TOGO
TotalEnergies Marketing Tunisie Rue du Lac Huron 1053 Les Berges du Lac Tunis / TUNISIE	TotalEnergies Marketing Uganda Limited Plot 4, 8th Street, Industrial Area, P.O. Box 3079., Kampala, Uganda	TotalEnergies EP Nigeria Limited Plot 25, Trans Amadi Industrial Layout P.M.B 5160 and P.O.Box 696, Port Harcourt Nigeria.	TotalEnergies Marketing Zambia Ltd Total House Great East Road Lusaka / ZAMBIA Tel : +260 211 374 403
TotalEnergies Marketing Zimbabwe Total House 1 Auckland Road - Southern Harare / ZIMBABWE Tel : +263 242 754 481	Totalgaz Southern Africa (Pty) Ltd. 2nd Floor, Tygervally, Chambers Two Bellville, 7530 Western Cape - South Africa Tel: +27 21 941 4000 Fax: +27 21 941 4001		

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader



Section 16. Other information

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.