

Section 1. Identification

Product identifier : CERAN WR 2

Recommended use of the chemical and restrictions on use

Identified uses

Lubricating grease

Supplier's details :

TotalEnergies Lubrifiants
562 Avenue du Parc de L'île
92029 Nanterre Cedex FRANCE
Tél: +33 (0)1 41 35 40 00
Fax: +33 (0)1 41 35 84 71
rm.msds-lubs@totalenergies.com

TOTAL - Direction Afrique
24, cours Michelet
92800 PUTEAUX
FRANCE
Tel : +33 (0)1 41 35 40 00
Fax : +33 (0)1 41 35 82 88

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	%	Identifiers
Distillates (petroleum), hydrotreated heavy naphthenic	≤10	64742-52-5
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	≤10	68584-23-6
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	≤5	70024-69-0
Sulfonic acids, petroleum, calcium salts	≤5	61789-86-4
calcium(2+) 12-hydroxyoctadecanoate	≤3	3159-62-4
calcium tetraborate	<3	12007-56-6

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 measuresDescription 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.
- 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 delayedPotential 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.
- 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.



Section 4. First aid measures

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, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : No specific fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/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. 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 : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. 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 heavy naphthenic	ACGIH TLV (United States, 3/2020). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction

Occupational exposure limits Egypt

Product/substance	Exposure limit values
Residual oils (petroleum), hydrotreated	ACGIH TLV (United States, 3/2020). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States, 3/2020). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
Distillates (petroleum), hydrotreated heavy naphthenic	ACGIH TLV (United States, 3/2020). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction

Occupational exposure limits Lesotho

Product/substance	Exposure limit values
Residual oils (petroleum), hydrotreated	ACGIH TLV (United States, 3/2020). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States, 3/2020). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
Distillates (petroleum), hydrotreated heavy naphthenic	ACGIH TLV (United States, 3/2020). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction

Occupational exposure limits South Africa

Product/substance	Exposure limit values
Residual oils (petroleum), hydrotreated	ACGIH TLV (United States, 3/2020). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States, 3/2020). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
Distillates (petroleum), hydrotreated heavy naphthenic	ACGIH TLV (United States, 3/2020). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction



Section 8. Exposure controls/personal protection

- 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.
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. Respirator with combination filter for vapor/particulate Type A/P1 Warning ! filters have a limited use duration The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses None under normal use conditions

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** : Solid.
- Color** : Light brown.



Section 9. Physical and chemical properties and safety characteristics

Odor	: Characteristic.
Odor threshold	: Not available.
pH	: Not applicable.
Melting point/freezing point	: Not applicable.
Boiling point	: Not available.
Flash point	: Not applicable.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 0.9
Solubility	: Insoluble in the following materials: cold water and hot water.
Miscible with water	: No.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: >250°C (>482°F)
Decomposition temperature	: Not available.
Viscosity	: Not applicable.
Flow time (ISO 2431)	: Not available.
Particle characteristics	
Median particle size	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.



Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/substance	Result	Species	Dose	Exposure	Test
Distillates (petroleum), hydrotreated heavy naphthenic	LC50 Inhalation Dusts and mists	Rat	5.54 mg/l	4 hours	OECD 403
	LD50 Dermal	Rabbit	2500 mg/kg	-	-
	LD50 Oral	Rat	>5000 mg/kg	-	-
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	LC50 Inhalation Dusts and mists	Rat - Male, Female	>1.9 mg/l	4 hours	EPA OPP 81-3 Acute Inhalation Toxicity OECD
	LD50 Dermal	Rabbit - Male, Female	>4000 mg/kg	-	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-	OECD 401 Read across
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	LC50 Inhalation Dusts and mists	Rat - Male, Female	>1.9 mg/l	4 hours	EPA OPP 81-3 Acute Inhalation Toxicity Read across
	LD50 Dermal	Rabbit - Male, Female	>5000 mg/kg	-	OECD 402
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-	OECD 401
Sulfonic acids, petroleum, calcium salts	LC50 Inhalation Dusts and mists	Rat - Male	>1.9 mg/l	4 hours	EPA OPP 81-3 Acute Inhalation Toxicity
	LD50 Dermal	Rabbit - Male, Female	>4000 mg/kg	-	-
	LD50 Oral	Rat - Male	>16000 mg/kg	-	Section 772 . 112-21 CFR 40
calcium(2+) 12-hydroxyoctadecanoate	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-	OECD 402
	LD50 Oral	Rat - Female	>2000 mg/kg	-	OECD 420
calcium tetraborate	LD50 Oral	Rat	5600 mg/kg	-	-
	LD50 Oral	Rat - Female	>2000 mg/kg	-	OECD 423 Read across

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

Irritation/Corrosion

Product/substance	Result	Species	Score	Exposure	Test
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Skin - Edema	Rabbit	0.3	4 hours	EPA OPPTS 870.2500 Acute Dermal Irritation OECD
	Skin - Primary dermal irritation index (PDII)	Rabbit	0.5	4 hours	-
calcium(2+) 12-hydroxyoctadecanoate	Eyes - Cornea opacity	Rabbit	0	-	EPA
	Eyes - Cornea opacity	Rabbit	0	-	OECD 405

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

**Section 11. Toxicological information**

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

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

Sensitization

Product/substance	Route of exposure	Species	Result
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	skin	Human	Sensitizing
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	skin	Mouse	Sensitizing
Sulfonic acids, petroleum, calcium salts	skin	Guinea pig	Sensitizing
calcium(2+) 12-hydroxyoctadecanoate	skin	Mouse	Not sensitizing

Skin : Based on available data, the classification criteria are not met. The supplier of one or more of the components contained within this formulation has indicated that he has data on the components and/or similar mixtures, which confirms that at the concentration used, classification is not required

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

Mutagenicity

Product/substance	Test	Experiment	Result
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 474	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative
	-	Experiment: In vivo Subject: Mammalian-Animal	Negative
calcium(2+) 12-hydroxyoctadecanoate	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic	Negative
	OECD 473	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic	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

**Section 11. Toxicological information**

Product/substance	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts calcium(2+) 12-hydroxyoctadecanoate	Negative	Negative	Negative	Rat - Male, Female	Oral	-
	-	Negative	Negative	Rat - Male, Female	Dermal	-

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.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

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.
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



Section 11. Toxicological information

Product/substance	Result	Species	Dose	Exposure
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts calcium(2+) 12-hydroxyoctadecanoate	Sub-acute NOAEL Oral	Rat - Male, Female	500 mg/kg	-
	Sub-acute NOAEL Dermal	Rat - Male, Female	>1000 mg/kg	-
	Sub-acute NOAEL Inhalation Vapor	Rat - Male, Female	50 mg/m ³	28 days
	Sub-chronic NOAEL Dermal	Rat - Male, Female	1000 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.

Numerical measures of toxicity

Acute toxicity estimates

Product/substance	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
CERAN WR 2	100401.6	25252.5	N/A	N/A	N/A
Distillates (petroleum), hydrotreated heavy naphthenic	N/A	2500	N/A	N/A	5.54
calcium(2+) 12-hydroxyoctadecanoate	2500	N/A	N/A	N/A	N/A
calcium tetraborate	5600	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/substance	Result	Species	Exposure	Test
Distillates (petroleum), hydrotreated heavy naphthenic	Acute EC50 >10000 mg/l	Daphnia - Daphnia magna	48 hours	OECD 202
	Chronic NOEC 10 mg/l	Daphnia - Daphnia magna	21 days	OECD 211
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Acute EC50 >1000 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Acute EC50 >1000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Acute LC50 >1000 mg/l	Fish - Cyprinodon variegatus	96 hours	OECD 203
	Chronic EC10 >1000 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Acute EC50 >1000 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	Acute EC50 >1000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202



Section 12. Ecological information

Sulfonic acids, petroleum, calcium salts	Acute LC50 >1000 mg/l	Fish - Cyprinodon variegatus	96 hours	OECD 203
	Chronic EC10 >1000 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Acute EC50 >1000 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Acute EC50 >1000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Acute LC50 >1000 mg/l	Fish - Cyprinodon variegatus	96 hours	OECD 203
calcium(2+) 12-hydroxyoctadecanoate	Chronic EC10 >1000 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Acute EC50 161 mg/l	Algae	72 hours	-
calcium tetraborate	Acute EC50 >100 mg/l	Daphnia - Daphnia magna	48 hours	-
	Acute EC10 79 mg/l	Algae	72 hours	-
	Acute EC50 >100 mg/l	Algae	72 hours	-
	Acute EC50 >100 mg/l	Daphnia	48 hours	-

Persistence and degradability

Product/substance	Test	Result	Dose	Inoculum
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	OECD 301D	0 % - Not readily - 28 days	-	Activated sludge
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	OECD 301D	0 % - Not readily - 28 days	-	Activated sludge
Sulfonic acids, petroleum, calcium salts	OECD 301D	0 % - Not readily - 28 days	-	Activated sludge

Product/substance	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum), hydrotreated heavy naphthenic	-	-	Not readily
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	-	-	Not readily
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	-	-	Not readily
Sulfonic acids, petroleum, calcium salts	-	-	Not readily

Bioaccumulative potential

Product/substance	LogK _{ow}	BCF	Potential
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	22	-	high

Mobility in soil

**Section 12. Ecological information**

- Soil/water partition coefficient (K_{oc})** : Not available.
- Mobility in soil** : Given its physical and chemical characteristics, the product has no 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.

**Section 15. Regulatory information**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	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (CSCL) : Not determined. Japan inventory (ISHL) : Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

Section 16. Other informationHistory

Date of revision	: 2021/10/14
Date of previous revision	: No previous validation
Version	: 1

Key to abbreviations

ATE	= Acute Toxicity Estimate
BCF	= Bioconcentration Factor
GHS	= Globally Harmonized System of Classification 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



Section 16. Other information

TOTAL BURKINA 1080, Avenue Kwame N'Krumah Ouagadougou / BURKINA	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	TOTAL CONGO Rue de la corniche Brazzaville / CONGO
TOTAL EGYPT Corner St. 254 & 206, Degla, Maadi. Cairo, 11431 / EGYPT	TOTAL ETHIOPIA B & B building, behind AU head Quarter Addis-Abeba / ETHIOPIA	TOTAL GUINEA ECUATORIAL Malabo II / GUINEA	TotalEnergies Marketing Kenya PLC Regal Plaza, 6th Avenue Parklands, Limuru Road P.O. BOX 30736, 00100- NAIROBI – KENYA
TOTAL LESOTHO (PTY) LTD Motsokane Road, Industrial area Maseru / LESOTHO	TOTAL LIBERIA Clara town, Busrod Island Monrovia / LIBERIA	TOTAL MADAGASIKARA SA Immeuble Fitaratra, Route des hydrocarbures Ankorondrano 101 Antananarivo / MADAGASCAR	TOTAL MALAWI LIMITED OffMasauko Chipembere Highway Maselema Limbe / MALAWI
TOTAL MALI Avenue Kasse Keita Bamako / MALI	TOTAL MARKETING GABON Quartier Glass Boulevard de la République Libreville / GABON	TOTAL 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	TOTAL MARKETING TCHAD Parc des hydrocarbures, route de mara N'Djamena / TCHAD
TOTAL MAROC 146, Bd. Zerktoni 20000 Casablanca / MAROC	TOTAL MAURITANIE E nord- Lot n°110 Nouakhott / MAURITANIE	TOTAL MAURITIUS Chaussée Tromelin, Quai D BP 1202 Port-Louis / MAURITIUS	TOTAL MOZAMBIQUE Av. Sociedade de Geografia n°83, Edifício Maryah - 5 ^o andar unico Maputo / MOZAMBIQUE
TOTAL NAMIBIA (PTY) LTD 5 Otto Nitzsche Strasse, Klein Windhoek Windhoek / NAMIBIA	TOTAL NIGER Route de l'aéroport Niamey / NIGER	TOTAL PETROLEUM GHANA LTD 25 Liberia Road P.O. BOX GP553 Accra / GHANA	TOTAL RDC 652, Avenue Lt Colonel Likusa Gombe, Kinshasa / REPUBLIQUE DEMOCRATIQUE DU CONGO
TOTAL SENEGAL Route de l'aéroport, sur la station TOTAL 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	TOTAL SWAZILAND (PTY) LTD King Sobhuza 2nd Avenue, Industrial sites Manzini / SWAZILAND
TotalEnergies Marketing Tanzania Total House – Msasani Peninsula Haile Selassie road Plot no. 1720, PO Box 1503 Dar es salaam, Tanzania Tel +255222927700	TOTAL TOGO 69 bd de la paix Lomé / TOGO	TOTAL TUNISIE Rue du Lac Huron 1053 Les Berges du Lac – Tunis / TUNISIE	TOTAL UGANDA Plot 4, eighth Street Industrial Area Kampala / UGANDA
TOTAL Upstream Companies Plot 25, Trans Amadi Industrial Layout P.M.B 5160 and P.O Box 696, Port Harcourt NIGERIA +234(084)236310	TOTAL ZAMBIA Mungwi Road, Plot 1709 -A Industrial Area Lusaka / ZAMBIA	TOTAL ZIMBABWE Total house, 1 Auckland road - Southern Harare / ZIMBABWE	Totalgaz Southern Africa (Pty) Ltd. 2nd Floor, Tygervalley, 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.