

SAFETY DATA SHEET CERAN AD PLUS

SDS # : 36043

Section 1. Identification

Product identifier

: CERAN AD PLUS

Recommended use of the chemical and restrictions on use

Identified uses		
Formulation additives, lubri General use of lubricants a General use of lubricants a General use of lubricants a General use of lubricants a	ses in open systems - Professional icants and greases - Industrial and greases in vehicles or machinery - Industrial and greases in vehicles or machinery - Industrial and greases in vehicles or machinery - Professional and greases in vehicles or machinery - Professional ses in open systems - Industrial	
Supplier's details	:	
	✓otalEnergies Lubrifiants 562 Avenue du Parc de L'ile 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71 m.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

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
: Warning
: ⊮316 - Causes mild skin irritation.
H319 - Causes serious eye irritation.
: Wear eye or face protection. Wash thoroughly after handling.

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Section 2. Hazard identification

Response	:	Skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
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		
Extracts (petroleum), residual oil solvent	≥10 - ≤25	64742-10-5		
Extracts (petroleum), deasphalted vacuum residue solvent	≥10 - ≤25	91995-70-9		
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	≤5	68584-23-6		
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	≤3	70024-69-0		
Sulfonic acids, petroleum, calcium salts	≤3	61789-86-4		
Benzenesulfonic acid, C10-13-alkyl derivs., Ca Salt	<2.5	-		
calcium(2+) 12-hydroxyoctadecanoate ≤3 3159-62-4				

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. Continue to rinse for at least 10 minutes. Get medical attention if adverse health effects persist or are severe. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	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



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Section 4. First aid measures

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	<u>s</u>	
Eye contact	:	Causes serious eye irritation.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	Causes mild skin irritation. Defatting to the skin.
Ingestion	:	No known significant effects or critical hazards.
Over-exposure signs/sympto	on	<u>IS</u>
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	;	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	:	No specific data.
Indication of immediate medic	<u>ca</u>	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	:
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.



Section 5. Fire-fighting measures

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equip breathing apparatus (SCBA) with a full face-piece op mode.	•
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Section 6. Accidental release measures

Personal precautions, protect	tiv	e 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. 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	ont	ainment and cleaning up
Small spill	:	Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13

Section 7. Handling and storage

for waste disposal.

Precautions for safe handling	L	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
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

None.

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
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
Occupational exposure limits South Africa	<u>a</u>
Product/substance	Exposure limit values
Residual oils (petroleum), hydrotreated calcium carbonate	ACGIH TLV (United States, 3/2020). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction DOL OEL (South Africa, 8/1995). Notes: Recommended limit TWA: 5 mg/m ³ 8 hours. Form: respirable dust TWA: 10 mg/m ³ 8 hours. Form: total inhalable dust

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 measu	<u>Ires</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: chemical splash goggles.
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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
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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.
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

<u>Appearance</u>	
Physical state	: Solid.
Color	: dark brown
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Boiling point	: Not available.
Flash point	: Not applicable.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not applicable.
Vapor pressure	: Not available.
Vapor density	: Not applicable.
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 applicable.
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: Not available.



Section 9. Physical and chemical properties and safety characteristics

Viscosity	: Not applicable.
Flow time (ISO 2431)	: Not available.
Particle characteristics	
Median particle size	: Not available

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	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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
xtracts (petroleum), esidual oil solvent	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours	OECD 403
	LD50 Dermal	Rabbit	>3000 mg/kg	-	OECD 402
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 401
Extracts (petroleum), leasphalted vacuum esidue solvent	LC50 Inhalation Dusts and mists	Rat	5.1 mg/l	4 hours	OECD 403
	LD50 Dermal	Rabbit	3001 mg/kg	-	OECD 402
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 401
3enzenesulfonic 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
	LD50 Dermal	Rabbit - Male, Female	>4000 mg/kg	-	OECD
	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



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Section 11. Toxicological information

	LD50 Oral	Rat - Male,	>5000 mg/kg	-	OECD 401
		Female	eeee mg/ng		0202 101
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
Benzenesulfonic acid, C10-13-alkyl derivs., Ca Salt	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-	OECD 402
	LD50 Oral	Rat - Female	4445 mg/kg	-	-
calcium(2+) 12-hydroxyoctadecanoate	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-	OECD 402
	LD50 Oral	Rat - Female	>2000 mg/kg	-	OECD 420
0	. The set are as a link in the set				

Conclusion/Summary Irritation/Corrosion

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

Product/substance	Result	Species	Score	Exposure	Test
₿enzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Skin - Edema	Rabbit	0.3	4 hours	EPA OPPTS 870.2500 Acute Dermal Irritation
	Skin - Primary dermal irritation index (PDII)	Rabbit	0.5	4 hours	OECD
	Eyes - Cornea opacity	Rabbit	0	-	EPA
Benzenesulfonic acid, C10-13-alkyl derivs., Ca Salt	Skin - Erythema/Eschar	Rabbit	2.7	4 hours	OECD 404
	Eyes - Irritant	Rabbit	1	-	OECD 405
calcium(2+) 12-hydroxyoctadecanoate	Eyes - Cornea opacity	Rabbit	0	-	OECD 405
Skin	: Based on available data	a, the classification	ation criteria	are met.	
Eyes	: Based on available data	a, the classifica	ation criteria	are 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
Benzenesulfonic acid, C10-13-alkyl derivs., Ca Salt	skin	Guinea pig	Not sensitizing
calcium(2+) 12-hydroxyoctadecanoate	skin	Mouse	Not sensitizing



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Section 11. Toxicological information

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	: B ased 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

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
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Negative	Negative	Negative	Rat - Male, Female	Oral	-
calcium(2+) 12-hydroxyoctadecanoate	-	Negative	Negative	Rat - Male, Female	Dermal	-

Conclusion/Summary : **B** ased on available data, the classification criteria are not met.

Teratogenicity

Conclusion/Summary : **B** ased 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.



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Section 11. Toxic	ological informatio	n						
nformation on the likely outes of exposure	: Not available.							
otential acute health effect	<u>s</u>							
Eye contact	: Causes serious eye irritation	ו.						
Inhalation	: No known significant effects	No known significant effects or critical hazards.						
Skin contact	: Causes mild skin irritation.	Causes mild skin irritation. Defatting to the skin.						
Ingestion	: No known significant effects	or critical hazar	ds.					
symptoms related to the phy	vsical, chemical and toxicolog	ical characteris	<u>tics</u>					
Eye contact	: Adverse symptoms may inc pain or irritation watering redness	lude the followin	g:					
Inhalation	: No specific data.							
Skin contact	: Adverse symptoms may inc irritation redness dryness cracking	lude the followin	g:					
Ingestion	: No specific data.							
Short term exposure Potential immediate effects Potential delayed effects	Not available.Not available.							
Potential immediate effects								
Potential immediate effects Potential delayed effects								
Potential immediate effects Potential delayed effects Long term exposure Potential immediate	Not available.Not available.							
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects	Not available.Not available.Not available.			_				
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects	Not available.Not available.Not available.	Species	Dose	Exposure				
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health eff Product/substance Benzenesulfonic acid, C10-16-alkyl derivs.,	 Not available. Not available. Not available. 	<mark>Species</mark> Rat - Male, Female	Dose 500 mg/kg	Exposure -				
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health eff Product/substance Benzenesulfonic acid,	 Not available. Not available. Not available. Fects Result 	Rat - Male,		Exposure - -				
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff Product/substance Penzenesulfonic acid, C10-16-alkyl derivs., calcium salts	 Not available. Not available. Not available. Not available. Sub-acute NOAEL Oral Sub-acute NOAEL Dermal Sub-acute NOAEL Inhalation Vapor 	Rat - Male, Female Rat - Male, Female Rat - Male, Female	500 mg/kg	Exposure - - 28 days				
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health eff Product/substance Benzenesulfonic acid, C10-16-alkyl derivs.,	 Not available. Not available. Not available. Not available. Sub-acute NOAEL Oral Sub-acute NOAEL Dermal Sub-acute NOAEL Inhalation 	Rat - Male, Female Rat - Male, Female Rat - Male,	500 mg/kg >1000 mg/kg	-				
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff Product/substance Penzenesulfonic acid, C10-16-alkyl derivs., calcium salts calcium(2+)	 Not available. Not available. Not available. Not available. Sub-acute NOAEL Oral Sub-acute NOAEL Dermal Sub-acute NOAEL Inhalation Vapor 	Rat - Male, Female Rat - Male, Female Rat - Male, Female Rat - Male, Female	500 mg/kg >1000 mg/kg 50 mg/m³ 1000 mg/kg	- - 28 days -	g and/			
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff Product/substance Penzenesulfonic acid, C10-16-alkyl derivs., calcium salts calcium(2+) 12-hydroxyoctadecanoate	 Not available. Not available. Not available. Not available. Sub-acute NOAEL Oral Sub-acute NOAEL Dermal Sub-acute NOAEL Inhalation Vapor Sub-chronic NOAEL Dermal Prolonged or repeated contable 	Rat - Male, Female Rat - Male, Female Rat - Male, Female Rat - Male, Female act can defat the	500 mg/kg >1000 mg/kg 50 mg/m ³ 1000 mg/kg skin and lead to irri	- - 28 days -	g and/			

Numerical measures of toxicity

Acute toxicity estimates

Date of revision	: 2021/09/14	Africa	ENGLISH	Versior



Section 11. Toxicological information

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Extracts (petroleum), residual oil solvent Extracts (petroleum), deasphalted vacuum residue solvent	207986.7 N/A N/A	8118.1 2500 3001	N/A N/A N/A	N/A N/A N/A	N/A N/A 5.1
calcium(2+) 12-hydroxyoctadecanoate	2500	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/substance	Result	Species	Exposure	Test
Extracts (petroleum),	Acute EC50 >1000 mg/l	Algae -	72 hours	OECD QSAR
residual oil solvent		Pseudokirchneriella		
		subcapitata		
	Acute EC50 >1000 mg/l	Crustaceans - Daphnia	48 hours	OECD 202
		magna		
	Acute LC50 >1000 mg/l	Fish - Oncorhynchus	96 hours	OECD 203
		mykiss		
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia	21 days	OECD 211
		magna	-	
Extracts (petroleum),	Acute EC50 >1000 mg/l	Algae -	72 hours	QSAR
deasphalted vacuum residue		Pseudokirchneriella		
solvent		subcapitata		
	Acute EC50 >1000 mg/l	Daphnia - Daphnia magna	48 hours	OECD 202
	Acute EC50 >1000 mg/l	Fish - Oncorhynchus	96 hours	OECD 203
		mykiss		
	Chronic NOEL 35 mg/l	Algae -	72 hours	QSAR
		Pseudokirchneriella		
		subcapitata		
	Chronic NOEL >100 mg/l	Daphnia - Daphnia magna	21 days	OECD 211
	Chronic NOEL 63 mg/l	Fish - Oncorhynchus	21 days	-
		mykiss		
Benzenesulfonic acid,	Acute EC50 >1000 mg/l	Algae -	72 hours	-
C10-16-alkyl derivs., calcium		Pseudokirchneriella		
salts		subcapitata		
	Acute EC50 >1000 mg/l	Daphnia - Daphnia magna	48 hours	-
Benzenesulfonic acid, mono-	Acute EC50 >1000 mg/l	Algae -	72 hours	-
C16-24-alkyl derivs., calcium		Pseudokirchnerella		
salts		subcapitata		
	Acute EC50 >1000 mg/l	Daphnia - Daphnia magna	48 hours	-
Sulfonic acids, petroleum,	Acute EC50 >1000 mg/l	Algae -	72 hours	-
calcium salts		Pseudokirchnerella		
		subcapitata		
	Acute EC50 >1000 mg/l	Daphnia - Daphnia magna	48 hours	OECD 202
Benzenesulfonic acid,	Acute EC50 29 mg/l	Algae -	72 hours	-
C10-13-alkyl derivs., Ca Salt		Pseudokirchneriella		
		subcapitata		
	Acute EC50 2.9 mg/l	Daphnia - Daphnia magna	48 hours	OECD 202
	Acute NOEC 0.5 mg/l	Algae	96 hours	-
	Acute NOEC 0.23 mg/l	Fish	72 hours	-
	-		1	



Section 12. Ecological information

	•			
	Chronic NOEC 1.18 mg/l	Daphnia - Daphnia magna	21 days	-
calcium(2+)	Acute EC50 161 mg/l	Algae	72 hours	-
12-hydroxyoctadecanoate	_	_		
	Acute EC50 >100 mg/l	Daphnia - Daphnia magna	48 hours	-

Persistence and degradability

Product/substance	Aquatic half-life	Photolysis	Biodegradability
Extracts (petroleum),	-	-	Not readily
residual oil solvent			
Extracts (petroleum),	-	-	Not readily
deasphalted vacuum residue solvent			
Benzenesulfonic acid,	-	-	Not readily
C10-16-alkyl derivs., calcium			
salts			
Benzenesulfonic acid, mono-	-	-	Not readily
C16-24-alkyl derivs., calcium			
salts			
Sulfonic acids, petroleum,	-	-	Not readily
calcium salts			

Bioaccumulative potential

Not available.

<u>Mobility in soil</u>	
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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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 number	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 : Not available. to IMO instruments

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.

Inventory list

Australia	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.
Europe	1	All components are listed or exempted.
Japan	1	Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	1	Not determined.
Philippines	1	Not determined.
Republic of Korea	:	Not determined.



Section 15. Regulatory information

Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

Section 16. Other information

History

<u>Instory</u>	
Date of revision	: 2021/09/14
Date of previous revision	: 2021/02/24
Version	: 2
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
Due a structure of the standard the	

Procedure used to derive the classification

Classification	Justification
KIN CORROSION/IRRITATION - Category 3	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method

Additionnal details on the supplier of the product

TOTAL BURKINA 1080, Avenue Kwame N'Krumah Ouagadougou / BURKINA	TOTAL CENTRAFRIQUE Avenue de l'Indépendance, BP 3295 Bangui / REPUBLIQUE CENTRAFRICAINE	TOTAL CONGO Rue de la comiche 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 Motsoane 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. Zerktouni 20000 Casablanca / MAROC



Section 16. Other information

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,Edificio Maryah - 5°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	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, eighte Street Indusrial 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 - Southerton 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.

V Indicates information that has changed from previously issued version.

Notice to reader

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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.