

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

CERAN XM 220

SDS no. 080100

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SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier	
Product name	: CERAN XM 220
Product code	: 080100
Product description	: Not available.
Product type	: 🗾 quid.
Other means of identification	: Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	
Lubricating grease	
Uses advised against	

Not applicable.

1.3 Details of the supplier of the safety data sheet

TotalEnergies 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

rm.msds-lubs@totalenergies.com

TotalEnergies Marketing UK Limited 10 Upper Bank Street (19th floor) Canary Wharf, London E14 5BF UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033 rm.gb-msds@totalenergies.com

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1.4 Emergency telephone number

National	advisor	y body	v/Poison	Centre
	-			

Telephone number	: National Poisons Information Service (NPIS): 111
<u>Supplier</u>	
Telephone number	: Emergency telephone: +44 1235 239670



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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition

: Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye Irrit. 2, H319

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ingredients of unknown : Contains 1.6% of components with unknown hazards to the aquatic environment ecotoxicity

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word		Warning
Hazard statements		H319 - Causes serious eye irritation.
Precautionary statements		
Prevention		P280 - Wear eye or face protection.
Response	:	₱305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, Sulfonic acids, petroleum, calcium salts and C14-16-18 Alkyl phenol. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII		This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration $\geq 0,1$ %. This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.
Other hazards which do not result in classification	:	None known.



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SECTION 3: Composition/information on ingredients

3.2 Mixtures : M Product/ingredient name	lixture Identifiers	%	Classification	Туре
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	REACH #: 01-2119492627-25 EC: 271-529-4 CAS: 68584-23-6	≤10	Skin Sens. 1B, H317	[1]
Benzenesulfonic acid, mono- C16-24-alkyl derivs., calcium salts	REACH #: 01-2119492616-28 EC: 274-263-7 CAS: 70024-69-0	≤3	Skin Sens. 1B, H317	[1]
Sulfonic acids, petroleum, calcium salts	REACH #: 01-2119488992-18 EC: 263-093-9 CAS: 61789-86-4	≤3	Skin Sens. 1, H317	[1]
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	REACH #: 01-2119560592-37 EC: 932-231-6 CAS: 1335202-81-7	<3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	[1]
Limestone	EC: 215-279-6 CAS: 1317-65-3	≤3	Not classified.	[2]
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	REACH #: 01-2119491299-23 EC: 270-128-1 CAS: 68411-46-1	≤1	Repr. 2, H361f	[1]
C14-16-18 Alkyl phenol	REACH #: 01-2119498288-19 EC: 931-468-2	≤0.3	Skin Sens. 1B, H317 STOT RE 2, H373	[1]
diphenylamine	EC: 204-539-4 CAS: 122-39-4 Index: 612-026-00-5	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT RE 2, H373 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) See Section 16 for	[1] [2]
			the full text of the H statements declared above.	

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.



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SECTION 4: First aid measures

4.1 Description of first aid n	neas	sures
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 recognised 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.
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.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms 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 dryness cracking Ingestion : No specific data. 4.3 Indication of any immediate medical attention and special treatment needed Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.



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Suitable extinguishing media : Use dry chemical, CO2, water spray (fog) or foam. Unsuitable extinguishing media : Do not use water jet. 5.2 Special hazards arising from the substance or mixture	
media	
5.2 Special bazards arising from the substance or mixture	
or openia nazarao anong nom the substance of mixture	
Hazards from the : In a fire or if heated, a pressure increase will occur and the container may burst. substance or mixture	
Hazardous combustion products : carbon monoxide carbon dioxide nitrogen oxides sulfur oxides Hazardous combustion products : carbon monoxide carbon dioxide nitrogen oxides sulfur oxides Hydrogen sulfide Mercaptans : Mercaptans	
5.3 Advice for firefighters	
Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incide there is a fire. No action shall be taken involving any personal risk or without suitable training.	nt if
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

6.1 Personal precautions, pro	tective 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised 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".
6.2 Environmental precautions	: Avoid dispersal of spilt 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).
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. 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. Dispose of via a licensed waste disposal contractor.



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SECTION 6: Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. 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. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: Fut on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.

7.2 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Occupational exposure limits



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SECTION 8: Exposure controls/personal protection

Product/substance	Exposure limit values
∠ mestone	EH40/2005 WELs (United Kingdom (UK), 1/2020). [calcium
	carbonate inhalable dust/respirable dust]
	TWA: 4 mg/m ³ 8 hours. Form: respirable dust
	TWA: 10 mg/m ³ 8 hours. Form: inhalable dust
	EH40/2005 WELs (United Kingdom (UK), 1/2020). [limestone
	total inhalable/respirable]
	TWA: 4 mg/m ³ 8 hours. Form: respirable
	TWA: 10 mg/m ³ 8 hours. Form: total inhalable
diphenylamine	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 20 mg/m ³ 15 minutes.
	TWA: 10 mg/m ³ 8 hours.

Reportable hazardous constituent(s) contained in UVCB- and/or multi-constituent substance(s) complying with the classification criteria and/or with an exposure limit (OEL)

No exposure limit value known.

Biological Limit Values (BLV)

No exposure indices known.

Recommended monitoring procedures : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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)

DNELs/DMELs

Product/substance	Туре	Exposure	Value	Population	Effects
Penzenesulfonic acid, C10-16-alkyl derivs., calcium salts	DNEL	Long term Dermal	0.513 mg/ cm ²	General population	Local
,	DNEL	Long term Oral	0.8333 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.03 mg/ cm ²	Workers	Local
	DNEL	Long term Dermal	1.667 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.9 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	3.33 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	11.75 mg/	Workers	Systemic
Benzenesulfonic acid, mono- C16-24-alkyl derivs., calcium salts	DNEL	Long term Dermal	0.513 mg/ cm ²	General population	Local
- · · · · · · · · · · · · · · · · · · ·	DNEL	Long term Oral	0.8333 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.03 mg/	Workers	Local
	DNEL	Long term Dermal	1.667 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.9 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	3.33 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term	11.75 mg/	Workers	Systemic



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	-	Inhalation	m³		
Sulfonic acids, petroleum, calcium	DNEL	Long term Dermal	1.03 mg/	Workers	Local
salts			cm²		
	DNEL	Long term Dermal	0.513 mg/	General	Local
			Cm ²	population	
	DNEL	Long term Dermal	0.513 mg/	General	Local
		-	cm ²	population	
	DNEL	Long term Oral	0.8333 mg/	General	Systemic
		-	kg bw/day	population	
	DNEL	Long term Dermal	1.03 mg/	Workers	Local
		0	cm²		
	DNEL	Long term Dermal	1.667 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	2.9 mg/m ³	General	Systemic
		Inhalation		population	-)
	DNEL	Long term Dermal	3.33 mg/	Workers	Systemic
	0	Long tonin Donnia	kg bw/day	i i ontoro	eyeterme
	DNEL	Long term	11.75 mg/	Workers	Systemic
	DIVLL	Inhalation	m ³	WOINCI3	Oysternie
Benzenesulfonic acid, C10-13-alkyl	DNEL	Long term Dermal	1.7 mg/kg	Workers	Systemic
erivs., calcium salt	DINCL	Long term Derma	bw/day	WOIKEI3	Oysternic
	DNEL	Long term Dermal	85 mg/kg	General	Systemic
	DINEL	Long term Derma		population	Systemic
		Short term Oral	bw/day	General	Sustamia
	DNEL	Short term Oral	89 mg/kg		Systemic
		Long to up Down of	bw/day	population	Curatamia
	DNEL	Long term Dermal	1.7 mg/kg	Workers	Systemic
		Lange tawns Dames 1	bw/day	Comerci	Overter
	DNEL	Long term Dermal	85 mg/kg	General	Systemic
	DUE		bw/day	population	
	DNEL	Short term Oral	89 mg/kg	General	Systemic
			bw/day	population	
Benzenamine, N-phenyl-, reaction	DNEL	Long term Oral	0.04 mg/	General	Systemic
products with 2,4,4-trimethylpentene			kg bw/day	population	
	DNEL	Long term Dermal	0.04 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	0.08 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	0.14 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	0.6 mg/m ³	Workers	Systemic
		Inhalation	Ŭ		-
C14-16-18 Alkyl phenol	DNEL	Long term	1.17 mg/m ³	Workers	Systemic
		Inhalation	Ŭ		-
	DNEL	Long term Dermal	0.3 mg/kg	Workers	Systemic
					,

PNECs

Product/substance	Compartment Detail	Value	Method Detail
enzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Fresh water	1 mg/l	-
	Marine water	1 mg/l	-
	Fresh water sediment	22600000 mg/	-
		kg dwt	
	Marine water sediment	226000000 mg/	-
		kg dwt	
	Soil	868700000 mg/	-
		_	



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		kg dwt	
	Sewage Treatment Plant	100 mg/l	-
	Secondary Poisoning	16.667 mg/kg dwt	-
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	Fresh water	1 mg/l	-
,	Marine water	1 mg/l	-
	Fresh water sediment	226000000 mg/	-
		kg dwt	
	Marine water sediment	226000000 mg/	-
		kg dwt	
	Soil	271000000 mg/	-
		kg dwt	
	Sewage Treatment	100 mg/l	-
	Plant	J. J. J.	
	Secondary Poisoning	16.667 mg/kg dwt	-
Sulfonic acids, petroleum, calcium salts	Fresh water	1 mg/l	-
· · · · ·	Marine water	1 mg/l	-
	Fresh water sediment	226000000 mg/	-
		kg dwt	
	Marine water sediment	226000000 mg/	-
		kg dwt	
	Soil	271000000 mg/	-
		kg wwt	
	Sewage Treatment	1000 mg/l	-
	Plant	U. U.	
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	Fresh water	23 µg/l	-
	Marine water	2.3 µg/l	-
	Sewage Treatment	3 mg/l	-
	Plant	-	
	Fresh water sediment	174 µg/kg dwt	-
	Marine water sediment	17.4 µg/kg dwt	-
	Soil	620 µg/kg dwt	-
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Fresh water	33.8 µg/l	-
	Marine water	3.38 µg/l	-
	Fresh water sediment	446 µg/kg dwt	-
	Marine water sediment	44.6 µg/kg dwt	-
	Soil	1.76 mg/kg dwt	-
C14-16-18 Alkyl phenol	Fresh water	0.1 mg/l	-
	Marine water	0.01 mg/l	-
	Fresh water sediment	4266.16 mg/kg	-
		dwt	
	Marine water sediment	426.62 mg/kg dwt	-
	Soil	852.58 mg/kg dwt	
	Sewage Treatment	100 mg/l	-
	Plant		

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures



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SECTION 8: Exposure controls/personal protection

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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 clothin Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.			
Eye/face protection	safety glasses with side-shields, EN 166.			
Skin protection				
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard sh be worn at all times when handling chemical products if a risk assessment indic this is necessary. Considering the parameters specified by the glove manufact 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.	cates turer, t		
	Hydrocarbon-proof gloves nitrile rubber Fluorinated 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. In case of prolonged contact with the product, it is recommended to wear glove complying with ISO 21420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicativ only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateneo of its use and its replacement frequency	f es /e al		
Body protection	Wear work clothing with long sleeves.			
Respiratory protection	Ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry into confined spaces. In case of inadequate ventilation we respiratory protection: 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.			
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislatic In some cases, fume scrubbers, filters or engineering modifications to the proc equipment will be necessary to reduce emissions to acceptable levels.			

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physic	cal and chemical properties
Appearance	
Physical state	: 🗾 🗹 [grease]
Colour	: Light brown.
Odour	: Characteristic.
Melting point/freezing point	: >300°C [ISO 3016]
Initial boiling point and boiling range	: Not applicable.
Flammability (solid, gas)	: Not applicable.

Date of revision :	Version : 4	United Kingdom (
2023/09/25		



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SECTION 9: Physical ar	nd d	chemical prop	erties
Upper/lower flammability or explosive limits	: 🕨	ot available.	
Flash point	: N	Not applicable.	
Auto-ignition temperature	: N	Not applicable.	
Decomposition temperature	: >	>300°C	
рН	: N	Not applicable.	Product is non-soluble (in water).
Viscosity	: N	Not applicable.	
Solubility(ies)	:		
Media		Result	
water		Not soluble	
Miscible with water	: 1	No.	
Partition coefficient: n-octanol/ water	: 1	Not applicable.	
Vapour pressure	: N	Not applicable.	
Relative density	: 0).9 [ISO 12185]	
Density	: 0).9 g/cm³ [20°C (68°F)] [ISO 12185]
Vapour density	: 🖡	ot available.	
Particle characteristics			
Median particle size	: 🕨	ot applicable.	

9.2 Other information

No other relevant physical and chemical parameters for the safe use of the product

SECTION 10: Stabilit	y and reactivity
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
10.5 Incompatible materials	: Strong oxidising agents
10.6 Hazardous decomposition products	: carbon monoxide carbon dioxide nitrogen oxides sulfur oxides Hydrogen sulfide Mercaptans



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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/substance	Result	Species	Dose	Exposure	Test
₿enzenesulfonic 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
	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
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-	OECD 402 Read across
Limestone Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	LD50 Oral LD50 Oral LD50 Oral	Rat - Female Rat Rat	4445 mg/kg >5000 mg/kg >2500 mg/kg	-	-
C14-16-18 Alkyl phenol	LD50 Dermal LD50 Oral	Rat Rat	2000 mg/kg 2000 mg/kg	-	-
diphenylamine	LC50 Inhalation Dusts and mists	Rat	0.501 mg/l	4 hours	-
	LC50 Inhalation Vapour LD50 Dermal LD50 Dermal	Rat Rabbit Rat	3 mg/l >5000 mg/kg 300 mg/kg	4 hours - -	- - -
	LD50 Oral	Rat	100 mg/kg	-	-

Acute toxicity estimates

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	4445	N/A	N/A	N/A	N/A
diphenylamine	100	300	N/A	3	0.501



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SECTION 11: Toxicological information

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

Irritation/Corrosion

Conclusion/Summary

Product/substance	roduct/substance Result		Score	Exposure	Test
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Eyes - Cornea opacity	Rabbit	0	-	EPA
	Skin - Oedema	Rabbit	0.3	4 hours	EPA OPPTS 870.2500 Acute Dermal Irritation
	Skin - Primary dermal irritation index (PDII)	Rabbit	0.5	4 hours	OECD
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	Eyes - Irritant	Rabbit	1	-	OECD 405
	Skin - Erythema/Eschar	Rabbit	2.7	4 hours	OECD 404

Conclusion/Summary

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

Sensitisation

Product/substance	Route of exposure	Species	Result
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	skin	Human	Sensitising
Benzenesulfonic acid, mono- C16-24-alkyl derivs., calcium salts	skin	Mouse	Sensitising
Sulfonic acids, petroleum, calcium salts	skin	Guinea pig	Sensitising
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	skin	Guinea pig	Not sensitizing

Conclusion/Summary

Skin

. .

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

Respiratory 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	Negative

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			Subject: Mamm	alian-Animal		
Conclusion/Summary	• Based on	available data	-	n criteria are not me	<u> </u> t	
<u>Carcinogenicity</u>	. Dasca on					
Conclusion/Summary	: Based on	available data	a, the classificatio	n criteria are not me	t.	
Reproductive toxicity	- Dubbu on					
Product/substance	Maternal	Fertility	Developmental	Species	Dose	Exposure
Troduct/Substance	toxicity	rennity	toxin	opecies	Dose	LAPOSUIC
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Negative	Negative	Negative	Rat - Male, Female	Oral	-
Conclusion/Summary	: Based on	available data	a, the classificatio	n criteria are not me	t.	1
Teratogenicity						
Conclusion/Summary	: Based on	available data	a, the classificatio	n criteria are not me	t.	
Specific target organ toxicity	v (sinale exp	osure)				
Not available.						
Conclusion/Summary	: Based on	available data	a, the classificatio	n criteria are not me	t.	
Specific target organ toxicit						
Product/s	ubstance		Catego	y Route of	Tar	get organs
				exposure		
☑14-16-18 Alkyl phenol diphenylamine			Category 2 Category 2			
Conclusion/Summary	: Based on	available data	a, the classificatio	n criteria are not me	t.	
Aspiration hazard						
Not available.						
Conclusion/Summary	: Based on	available data	a, the classificatio	n criteria are not me	t.	
nformation on likely routes of exposure	: Not availa	ble.				
Potential acute health effects						
Eye contact	: Causes se	erious eye irrit	ation.			
Inhalation	: No known	significant ef	fects or critical ha	azards.		
Skin contact	: Defatting t	o the skin. M	lay cause skin dr	yness and irritation.		
Ingestion	: No known	significant ef	fects or critical ha	azards.		
Symptoms related to the physical	sical, chemic	al and toxico	ological charact	eristics		
Eye contact		ymptoms may	y include the follo			
Inhalation	: No specifi	c data.				
Skin contact	: Adverse s irritation dryness cracking	ymptoms may	y include the follo	wing:		



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Ingestion	: No specific data.

Delayed and immediate eff	ects as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate	: Not available.

effects	
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.

Potential chronic health effects

Product/substance	Result	Species	Dose	Exposure	
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Sub-acute NOAEL Dermal	Rat - Male, Female	>1000 mg/kg	-	
	Sub-acute NOAEL Oral	Rat - Male, Female	500 mg/kg	-	
	Sub-acute NOAEL Inhalation Vapour	Rat - Male, Female	50 mg/m³	28 days	
Conclusion/Summary	: Not available.				
General	: No known significant effects or critical hazards.				
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			

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/substance	Result	Species	Exposure	Test
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	72 hours	OECD 201



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SECTION 12: Ecological information

U				
		subcapitata	70 h a	
Benzenesulfonic acid, mono-	Acute EC50 >1000 mg/l	Algae -	72 hours	OECD 201
C16-24-alkyl derivs.,		Pseudokirchneriella		
calcium salts		subcapitata	10.1	0505 000
	Acute EC50 >1000 mg/l	Crustaceans - <i>Daphnia</i>	48 hours	OECD 202
		magna		
	Acute LC50 >1000 mg/l	Fish - Cyprinodon	96 hours	OECD 203
		variegatus		
	Chronic EC10 >1000 mg/l	Algae -	72 hours	OECD 201
		Pseudokirchneriella		
		subcapitata		
Sulfonic acids, petroleum,	Acute EC50 >1000 mg/l	Algae -	72 hours	OECD 201
calcium salts		Pseudokirchneriella		
		subcapitata		
	Acute EC50 >1000 mg/l	Crustaceans - Daphnia	48 hours	OECD 202
		magna		
	Acute LC50 >1000 mg/l	Fish - Cyprinodon	96 hours	OECD 203
		variegatus		
	Chronic EC10 >1000 mg/l	Algae -	72 hours	OECD 201
		Pseudokirchneriella		
		subcapitata		
Benzenesulfonic acid,	Acute EC50 29 mg/l	Algae -	96 hours	STDMETH,
C10-13-alkyl derivs.,		Pseudokirchneriella		ASTM and
calcium salt		subcapitata		USEPA 201
	Acute EC50 2.9 mg/l	Crustaceans - Daphnia	48 hours	OECD 202
		magna		
	Acute LC50 1.67 mg/l	Fish - <i>Lepomis</i>	96 hours	STDMETH,
		macrochirus		ASTM and
				USEPA
	Chronic NOEC 0.5 mg/l	Algae -	96 hours	STDMETH,
		Pseudokirchneriella		ASTM and
		subcapitata		USEPA 201
	Chronic NOEC 0.379 mg/l	Daphnia	48 hours	OECD 211
C14-16-18 Alkyl phenol	Acute EC50 >100 mg/l	Daphnia - Daphnia magna	48 hours	OECD 202
diphenylamine	Acute EC50 0.31 mg/l	Daphnia - Daphnia magna	48 hours	-
	Fresh water			
	Acute LC50 2.2 ppm Fresh	Fish - Oncorhynchus	96 hours	US EPA
	water	mykiss		
Conclusion/Summary	• Not available			l

Conclusion/Summary

: Not available.

12.2 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
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	OECD 301B	>90 % - Readily - 28 days	-	Activated sludge
Conclusion/Summary	: Not available		•	



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SECTION 12: Ecological information

Product/substance	Aquatic half-life	Photolysis	Biodegradability
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			
Benzenesulfonic acid,	-	-	Readily
C10-13-alkyl derivs.,			
calcium salt			
Limestone	-	-	Not readily
Benzenamine, N-phenyl-,	-	-	Not readily
reaction products with			
2,4,4-trimethylpentene			

12.3 Bioaccumulative potential

Product/substance	LogPow	BCF	Potential
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	22	-	High
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	2.89	-	Low
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	5.1	1730	High
diphenylamine	3.5	151.36	Low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: 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

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration >= 0,1 %.

12.6 Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

12.7 Other adverse effects

No known significant effects or critical hazards.



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SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

io. i music i cument metri	
Product	
Methods of disposal	: The generation of waste should be avoided or minimised 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.
Hazardous waste	: Yes.
	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. The following Waste Codes are only suggestions: 12 01 12*
Packaging	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	•			
	ADR/RID	ADN	IMDG	ICAO/IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

14.6 Special precautions for : 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.



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SECTION 14: Transport information

14.7 Maritime transport in : Not available. **bulk according to IMO**

instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Are note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
International regulations	
Chemical Weapon Convent	ion List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol Not listed.	
Stockholm Convention on	Persistent Organic Pollutants
Not listed.	
Rotterdam Convention on F	Prior Informed Consent (PIC)

Not listed.



SECTION 15: Regulatory information

Not listed.	
Inventory list	
Australia inventory (AlIC)	: All components are listed or exempted.
Canada inventory	: All components are listed or exempted.
China inventory (IECSC)	: All components are listed or exempted.
Europe inventory	: All components are listed or exempted.
Japan inventory	: Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted
New Zealand Inventory of Chemicals (NZIoC)	: All components are listed or exempted.
Philippines inventory (PICCS)	: All components are listed or exempted.
Korea inventory (KECI)	: All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI)	: All components are listed or exempted.
Thailand inventory	: Not determined.
Turkey inventory	: Not determined.
United States inventory (TSCA 8b)	: All components are listed or exempted.
Vietnam inventory	: Not determined.

The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.

15.2 C	hemical	safety
asses	sment	

: See exposure scenarios

assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level DMEL = Derived Minimal Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative PNEC = Predicted No Effect Concentration LC50 = Median lethal concentration LD50 = Median lethal dose OEL = Occupational Exposure Limit VOC = Volatile Organic Compound UVCB Substance of unknown or Variable composition, Complex reaction products or Biological material NOEC No Observed Effect Concentration QSAR = Quantitative Structure–Activity Relationship



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SECTION 16: Other information

Procedure used to derive the classification

Classification	Justification	
Eye Irrit. 2, H319	Calculation method	

Full text of abbreviated H statements

H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications

Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 3 Eye Dam. 1 Eye Irrit. 2 Repr. 2 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1B	ACUTE TOXICITY - Category 3 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1B
STOT RE 2 Date of printing	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 : 2023/09/25
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Notice to reader	

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