



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

CERAN XM 460

SDS no. 080302

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

1.1 Product identifier

Product name : CERAN XM 460

Product code : 080302

Product description: Not available.

Product type : Solid.

Other means of : Not available.

identification

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

Identified uses

Not applicable.

Uses advised against

Not applicable.

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

H.S.E

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : National Poisons Information Service (NPIS): 111

Supplier

Telephone number: Emergency telephone: +44 1235 239670

Hours of operation : Edit the content of sentence <GB Telephone Number - Supplier - Hours of

operation> to define this output

Information limitations : Edit the content of sentence <GB Telephone Number - Supplier - Information

limitations> to define this output

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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 ecotoxicity

: Contains 3% of components with unknown hazards to the aquatic environment

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

: P280 - Wear eye or face protection. **Prevention**

: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Response

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

: Not applicable. Storage

Disposal : Not applicable.

Supplemental label : Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, Sulfonic acids, petroleum, calcium elements

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 >= 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 : Mixture

Product/ingredient name	Identifiers	%	Classification	Туре
Benzenesulfonic acid,	REACH #:	≤10	Skin Sens. 1B, H317	[1]
C10-16-alkyl derivs., calcium salts	01-2119492627-25			
	EC: 271-529-4			
Danzanagulfania asid mana	CAS: 68584-23-6 REACH #:	≤3	Ckin Cong. 1D. U217	[4]
Benzenesulfonic acid, mono- C16-24-alkyl derivs., calcium salts	01-2119492616-28	≥3	Skin Sens. 1B, H317	[1]
C 10-24-alkyl delivs., Calcium Saits	EC: 274-263-7			
	CAS: 70024-69-0			
Sulfonic acids, petroleum, calcium	REACH #:	≤3	Skin Sens. 1, H317	[1]
salts	01-2119488992-18			[.]
	EC: 263-093-9			
	CAS: 61789-86-4			
Benzenesulfonic acid,	REACH #:	<3	Skin Irrit. 2, H315	[1]
C10-13-alkyl derivs., calcium salt	01-2119560592-37		Eye Dam. 1, H318	
	EC: 932-231-6		Aquatic Chronic 3,	
	CAS: 1335202-81-7		H412	
Benzenamine, N-phenyl-, reaction	REACH #:	≤1	Repr. 2, H361f	[1]
products with	01-2119491299-23			
2,4,4-trimethylpentene	EC: 270-128-1			
C14 1C 10 Allod phanel	CAS: 68411-46-1	<0.0	Ckin Come 4D 11247	F41
C14-16-18 Alkyl phenol	REACH #: 01-2119498288-19	≤0.3	Skin Sens. 1B, H317 STOT RE 2, H373	[1]
	EC: 931-468-2		3101 KE 2, H3/3	
	20. 331-400-2		0 0	
			See Section 16 for the full text of the H	
			statements declared	
			above.	
			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.

Type

- [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.

SECTION 4: First aid measures

4.1 Description of 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.

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SECTION 4: First aid measures

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

: Treat symptomatically. Contact poison treatment specialist immediately if large Notes to physician

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

Hazards from the substance or mixture : No specific fire or explosion hazard.

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SECTION 5: Firefighting measures

Hazardous combustion products

carbon monoxide carbon dioxide Silicon Dioxide nitrogen oxides sulfur oxides Hydrogen sulfide 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 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

SECTION 6: Accidental release measures

6.1 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 spilt material. 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

: 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 the 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 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.

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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

: 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.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Shelf life: 36 months. 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)

: See exposure scenarios Recommendations

Industrial sector specific : Not available.

solutions

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/substance	Exposure limit values
diphenylamine	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 20 mg/m³ 15 minutes. TWA: 10 mg/m³ 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.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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

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SECTION 8: Exposure controls/personal protection

Product/substance	Type	Exposure	Value	Population	Effects
B enzenesulfonic acid, C10-16-alkyl	DNEL	Long term Oral	0.8333 mg/	General	Systemic
derivs., calcium salts			kg bw/day	population	
	DNEL	Long term Dermal	1.667 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	3.33 mg/	Workers	Systemic
		<u> </u>	kg bw/day		
	DNEL	Long term	11.75 mg/	Workers	Systemic
	DVIE	Inhalation	m³	0	1 1
	DNEL	Long term Dermal	0.513 mg/	General	Local
	DNE	Long torm Dormal	cm ²	population Workers	Local
	DNEL	Long term Dermal	1.03 mg/ cm ²	vvorkers	Local
	DNEL	Long term	2.9 mg/m ³	General	Systemic
	DINEL	Inhalation	2.8 mg/m²	population	Systemic
Benzenesulfonic acid, mono-	DNEL	Long term Oral	0.8333 mg/	General	Systemic
C16-24-alkyl derivs., calcium salts	PINEL	Long term Oral	kg bw/day	population	Cystollilo
2 . 5 . 2 . antyr don vo., ballolain ballo	DNEL	Long term Dermal	1.667 mg/	General	Systemic
	D. 1CC	Long tomi Domia	kg bw/day	population	2,01011110
	DNEL	Long term	2.9 mg/m ³	General	Systemic
		Inhalation		population	,
	DNEL	Long term Dermal	3.33 mg/	Workers	Systemic
]	kg bw/day		
	DNEL	Long term	11.75 mg/	Workers	Systemic
		Inhalation	m ³		
	DNEL	Long term Dermal	0.513 mg/	General	Local
			cm ²	population	
	DNEL	Long term Dermal	1.03 mg/	Workers	Local
			cm ²		
Sulfonic acids, petroleum, calcium	DNEL	Long term Oral	0.8333 mg/	General	Systemic
salts			kg bw/day	population	
	DNEL	Long term Dermal	1.667 mg/	General	Systemic
	5.151		kg bw/day	population	
	DNEL	Long term	2.9 mg/m ³	General	Systemic
	ראבי	Inhalation	2 22 5/	population	Cyatami:
	DNEL	Long term Dermal	3.33 mg/	Workers	Systemic
	חאבו	Long torm	kg bw/day	Morkoro	Systemis
	DNEL	Long term Inhalation	11.75 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	1.03 mg/	Workers	Local
	DINEL	Long term Dermal	cm ²	AAOIVEI2	LUCAI
	DNEL	Long term Dermal	0.513 mg/	General	Local
	DIVLL	Long tomi Demia	cm ²	population	Local
	DNEL	Long term Dermal	0.513 mg/	General	Local
			cm ²	population	
	DNEL	Long term Dermal	1.03 mg/	Workers	Local
			cm ²		
Benzenesulfonic acid, C10-13-alkyl	DNEL	Long term Dermal	1.7 mg/kg	Workers	Systemic
derivs., calcium salt			bw/day		
	DNEL	Long term Dermal	85 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Oral	89 mg/kg	General	Systemic
			bw/day	population	_
	DNEL	Long term Dermal	1.7 mg/kg	Workers	Systemic
			bw/day		
		Long term Dermal	85 mg/kg	General	Systemic

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SECTION 8: Exposure controls/personal protection

	DNE	Chart tarms Oral	bw/day	population	Cuntamia
	DNEL	Short term Oral	89 mg/kg bw/day	General population	Systemic
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	DNEL	Long term Oral	0.04 mg/ kg bw/day	General population	Systemic
products with 2,4,4-tilllethylperiterie	DNEL	Long term Dermal	0.04 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 0.08 mg/	population Workers	Systemic
			kg bw/day		,
	DNEL	Long term Inhalation	0.14 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	0.6 mg/m ³	Workers	Systemic
C14-16-18 Alkyl phenol	DNEL	Long term	1.17 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	0.3 mg/kg bw/day	Workers	Systemic

PNECs

Product/substance	Compartment Detail	Value	Method Detail
Benzenesulfonic acid, C10-16-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/	-
	Soil	kg dwt 868700000 mg/	-
		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	-
derive., edicidiri salte	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 Plant	100 mg/l	-
	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 Plant	1000 mg/l	-
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	Fresh water	23 μg/l	-

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SECTION 8: Exposure controls/personal protection

	organiai protoctio		
	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	Fresh water	33.8 µg/l	-
with 2,4,4-trimethylpentene			
	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

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

Skin protection

Hand protection

: safety glasses with side-shields, EN 166.

: 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.

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 gloves 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 indicative 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 appropriateness of its use and its replacement frequency

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SECTION 8: Exposure controls/personal protection

: Wear work clothing with long sleeves. **Body protection**

Non-skid safety shoes or boots

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.

: Ensure adequate ventilation and check that a safe, breathable atmosphere is **Respiratory protection**

present before entry into confined spaces. In case of inadequate ventilation wear 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 legislation. In some cases, fume scrubbers, filters or engineering modifications to the process 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 physical and chemical properties

Appearance

Physical state : Solid.

Colour : Light brown. Odour : Characteristic. : Not available. **Odour threshold**

Melting point/freezing point

Initial boiling point and

boiling range

: Not applicable.

: 300°C

: Not applicable. Flammability (solid, gas) Upper/lower flammability or

explosive limits

: Not applicable.

Flash point : Not applicable. : Not applicable. **Auto-ignition temperature**

Decomposition temperature

: >300°C

pН Not applicable. Product is non-soluble (in water).

Kinematic (room temperature): 460 mm²/s **Viscosity**

Kinematic (40°C): Not applicable.

Solubility(ies)

Media Result water Not soluble

Miscible with water No. Partition coefficient: n-octanol/ : >3.5

water

Vapour pressure : Not applicable. Relative density : 0.9 [ISO EN 3675]

: 0.9 g/cm³ [20°C (68°F)] [ISO EN 3675] **Density**

Vapour density : Not applicable.

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SECTION 9: Physical and chemical properties

Particle characteristics

Median particle size : Not available.

9.2 Other information

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

SECTION 10: Stability 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 : No specific data.

10.5 Incompatible materials : Strong oxidising agents

10.6 Hazardous decomposition products

: carbon monoxide carbon dioxide Silicon Dioxide nitrogen oxides sulfur oxides Hydrogen sulfide Mercaptans

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
Benzenesulfonic acid,	LC50 Inhalation Dusts	Rat - Male,	>1.9 mg/l	4 hours	EPA OPP
C10-16-alkyl derivs.,	and mists	Female			81-3 Acute
calcium salts					Inhalation
	L D50 D	D. 1.1.2	. 4000		Toxicity
	LD50 Dermal	Rabbit - Male, Female	>4000 mg/kg	-	OECD
	LD50 Oral	Rat - Male,	>5000 mg/kg	-	OECD 401
		Female			Read across
Benzenesulfonic acid,	LC50 Inhalation Dusts	Rat - Male,	>1.9 mg/l	4 hours	EPA OPP
mono-C16-24-alkyl derivs.,	and mists	Female			81-3 Acute
calcium salts					Inhalation
					Toxicity
	LD50 Dermal	Rabbit -	> E000 ma/ka		Read across OECD 402
	LD50 Dermai	Male, Female	>5000 mg/kg	-	OECD 402
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-	OECD 401
Sulfonic acids, petroleum,	LC50 Inhalation Dusts	Rat - Male	>1.9 mg/l	4 hours	EPA OPP
calcium salts	and mists				81-3 Acute
					Inhalation

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SECTION 11: Toxicological information

					Toxicity
	LD50 Dermal	Rabbit -	>4000 mg/kg	-	-
		Male, Female			0 " 770
	LD50 Oral	Rat - Male	>16000 mg/	-	Section 772.
			kg		112-21 CFR 40
Benzenesulfonic acid,	LD50 Dermal	Rat - Male,	>2000 mg/kg	_	OECD 402
C10-13-alkyl derivs.,	LB66 B6iiiiai	Female	2000 mg/kg		Read across
calcium salt					
	LD50 Oral	Rat - Female	4445 mg/kg	-	-
Benzenamine, N-phenyl-,	LD50 Oral	Rat	>5000 mg/kg	-	-
reaction products with					
2,4,4-trimethylpentene					
C14-16-18 Alkyl phenol	LD50 Dermal	Rat	2000 mg/kg	-	-
	LD50 Oral	Rat	2000 mg/kg	-	-
diphenylamine	LC50 Inhalation Dusts	Rat	0.501 mg/l	4 hours	-
	and mists				
	LC50 Inhalation Vapour	Rat	3 mg/l	4 hours	-
	LD50 Dermal	Rabbit	>5000 mg/kg	-	-
	LD50 Dermal	Rat	300 mg/kg	-	-
	LD50 Oral	Rat	100 mg/kg	-	-

Conclusion/Summary

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

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

Irritation/Corrosion

Product/substance	Result	Species	Score	Exposure	Test
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Eyes - Cornea opacity	Rabbit	0	-	EPA
Suito	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

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

Eyes: Based on available data, the classification criteria are met.

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

Sensitisation

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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. Contains sensitizer.

May produce an allergic reaction.

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

Conclusion/Summary

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

Carcinogenicity

Conclusion/Summary

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

Reproductive toxicity

Product/substance	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Negative	Negative	Negative	Rat - Male, Female	Oral	-

Conclusion/Summary

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

Teratogenicity

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

Specific target organ toxicity (single exposure)

Not available.

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

Specific target organ toxicity (repeated exposure)

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Product/substance	Category	Route of exposure	Target organs
, ,	Category 2 Category 2	-	-

Conclusion/Summary

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

Aspiration hazard

Not available.

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

Information on likely routes

of exposure

: Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

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: 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.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

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

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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

This product contains one or more components that have a branched alkylphenol impurity which is very toxic to aquatic life (disclosed in section 3). Components containing the impurity have been tested and are not toxic to aquatic life. Therefore, the data in Section 3 for the alkylphenol impurity should not be used to classify the product for aquatic toxicity

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 subcapitata	72 hours	OECD 201
Benzenesulfonic acid, mono- C16-24-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
Sulfonic acids, petroleum,	Acute EC50 >1000 mg/l	Algae -	72 hours	OECD 201

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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 - Lepomis	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.

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.

Product/substance	Aquatic half-life	Photolysis	Biodegradability
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	-	-	Not readily
Benzenesulfonic acid, mono-C16-24-alkyl derivs.,	-	-	Not readily
calcium salts Sulfonic acids, petroleum, calcium salts	-	-	Not readily
Benzenesulfonic acid, C10-13-alkyl derivs.,	-	-	Readily

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SECTION 12: Ecological information					
calcium salt					
Benzenamine, N-phenyl-,	-	-	Not readily		
reaction products with					
2,4,4-trimethylpentene					

12.3 Bioaccumulative potential

Product/substance	LogPow	BCF	Potential
CERAN XM 460 Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	>3.5 22	-	low 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

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.

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.

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

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.

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SECTION 13: Disposal considerations

Hazardous waste

: The classification of the product may meet the criteria for a hazardous waste.

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
Not regulated.	Not regulated.	Not regulated.	Not regulated.
-	-	-	-
-	-	-	-
-	-	-	-
No.	No.	No.	No.
	Not regulated.	Not regulated. Not regulated. - - - - -	Not regulated. Not regulated. Not regulated. - - - - - - - - - - - - -

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.

14.7 Maritime transport in bulk according to IMO instruments

: Not available.

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.

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SECTION 15: Regulatory information

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions : Not applicable.

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

Take 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 : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia inventory (AIIC): All components are listed 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.

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SECTION 15: Regulatory information

Japan inventory

: Japan inventory (CSCL): All components are listed or

Japan inventory (ISHL): Not determined.

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. : Not determined.

Turkey inventory 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 Chemical safety

: 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

Procedure used to derive the classification

Classification	Justification
Eye Irrit. 2, H319	Calculation method

Full text of abbreviated H statements

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SECTION 16: Other information

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

Acute Tox. 3	ACUTE TOXICITY - Category 3
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Dam. 1	SERIOUS EYÈ DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

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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.

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