

## SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

# **CERAN XM 220**

**SDS #**: 080100

## **Section 1. Identification**

GHS product identifier : CERAN XM 220

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

#### **Identified uses**

Lubricating grease

Formulation additives, lubricants and greases - Industrial

General use of lubricants and greases in vehicles or machinery - Industrial

General use of lubricants and greases in vehicles or machinery - Professional

Use of lubricants and greases in open systems - Industrial Use of lubricants and greases in open systems - Professional

Supplier's details

: TotalEnergies Marketing USA, Inc. 1201 Louisiana St. Suite 1800

Houston, TX 77002 Phone: 713-483-5000

ProductSafety@totalenergies.com



Emergency telephone number (with hours of operation)

1-866-928-0789 (For Emergencies, call CARECHEM 24/7 Domestic) 1-215-207-0061 (For Emergencies, call CARECHEM 24/7 International)

## Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 2

#### **GHS** label elements

**Hazard pictograms** 



Signal word

: Warning

**Hazard statements** 

: Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

### **Precautionary statements**

**Prevention** 

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Wash hands thoroughly after handling.

Response

: IF exposed or concerned: 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 : Store locked up.

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**Disposal** 

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

: None known.

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

Substance/mixture : Mixture

Ingredient name	% (w/w)	Identifiers	GHS Classification
Distillates (petroleum), hydrotreated heavy naphthenic	≥25 - ≤50	CAS: 64742-52-5	Not classified.
Residual oils (petroleum), hydrotreated	≥10 - ≤25	CAS: 64742-57-0	Not classified.
Residual oils (petroleum), solvent-dewaxed	≥10 - ≤25	CAS: 64742-62-7	Not classified.
Distillates (petroleum), solvent- dewaxed heavy paraffinic	≤10	CAS: 64742-65-0	Not classified.
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	≤10	CAS: 68584-23-6	SKIN SENSITIZATION - Category 1B
Benzenesulfonic acid, mono- C16-24-alkyl derivs., calcium salts	≤3	CAS: 70024-69-0	SKIN SENSITIZATION - Category 1B
Sulfonic acids, petroleum, calcium salts	≤3	CAS: 61789-86-4	SKIN SENSITIZATION - Category 1B
Benzenesulfonic acid, C10-13-alkyl derivs., Ca Salt	<3	CAS: 26264-06-2	SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1
Limestone	≤3	CAS: 1317-65-3	Not classified.
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	≤1	CAS: 68411-46-1	TOXIC TO REPRODUCTION - Category 2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

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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 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. 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. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : 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.

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

## Indication of immediate medical attention and special treatment needed, if necessary

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

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)

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## Section 5. Fire-fighting measures

## **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

: No specific fire or explosion hazard.

Specific hazards arising from the chemical

•

Hazardous thermal decomposition products

 carbon monoxide carbon dioxide nitrogen oxides sulfur oxides Hydrogen sulfide Mercaptans

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. 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 containment and cleaning up

**Small spill** 

: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. 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.

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## Section 7. Handling and storage

#### Precautions for safe handling

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.

See Section 10 for incompatible materials before handling or use.

## 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.

## including any incompatibilities

Conditions for safe storage, : 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. Store locked up. 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.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

### Occupational exposure limits

Product/substance	Exposure limits
Distillates (petroleum), hydrotreated heavy naphthenic	NIOSH REL (United States, 10/2020) [OIL MIST MINERAL]  TWA 10 hours: 5 mg/m³. Form: Mist.  STEL 15 minutes: 10 mg/m³. Form: Mist.  OSHA PEL (United States, 5/2018) [Oil mist, mineral]  TWA 8 hours: 5 mg/m³.  ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4.
Residual oils (petroleum), hydrotreated	TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.  NIOSH REL (United States, 10/2020) [OIL MIST MINERAL]  TWA 10 hours: 5 mg/m³. Form: Mist.  STEL 15 minutes: 10 mg/m³. Form: Mist.  OSHA PEL (United States, 5/2018) [Oil mist, mineral]  TWA 8 hours: 5 mg/m³.  ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4.  TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.
Residual oils (petroleum), solvent-dewaxed	NIOSH REL (United States, 10/2020) [OIL MIST MINERAL]  TWA 10 hours: 5 mg/m³. Form: Mist.  STEL 15 minutes: 10 mg/m³. Form: Mist.  OSHA PEL (United States, 5/2018) [Oil mist, mineral]  TWA 8 hours: 5 mg/m³.  ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4.  TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.
Distillates (petroleum), solvent-dewaxed heavy	NIOSH REL (United States, 10/2020) [OIL MIST MINERAL]

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paraffinic TWA 10 hours: 5 mg/m3. Form: Mist. STEL 15 minutes: 10 mg/m<sup>3</sup>. Form: Mist.

OSHA PEL (United States, 5/2018) [Oil mist, mineral]

TWA 8 hours: 5 mg/m<sup>3</sup>.

ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and

severely refined] A4.

TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Inhalable fraction.

None.

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts

Benzenesulfonic acid, mono-C16-24-alkyl derivs.

calcium salts

Sulfonic acids, petroleum, calcium salts Benzenesulfonic acid, C10-13-alkyl derivs., Ca

Salt

Limestone

None.

None. None.

NIOSH REL (United States, 10/2020) [calcium carbonate]

TWA 10 hours: 10 mg/m<sup>3</sup>. Form: Total.

TWA 10 hours: 5 mg/m<sup>3</sup>. Form: Respirable fraction.

CAL OSHA PEL (United States, 5/2018)

TWA 8 hours: 5 mg/m³. Form: respirable fraction. TWA 8 hours: 10 mg/m<sup>3</sup>. Form: total dust.

OSHA PEL (United States, 5/2018)

TWA 8 hours: 15 mg/m<sup>3</sup>. Form: Total dust.

TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Respirable fraction. OSHA PEL 1989 (United States, 3/1989) [Marble]

TWA 8 hours: 15 mg/m3. Form: Total dust. TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Respirable fraction. OSHA PEL 1989 (United States, 3/1989) [Limestone]

TWA 8 hours: 15 mg/m<sup>3</sup>. Form: Total dust. TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Respirable fraction.

OSHA PEL 1989 (United States, 3/1989) [Calcium carbonate]

TWA 8 hours: 15 mg/m³. Form: Total dust. TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Respirable fraction.

Benzenamine, N-phenyl-, reaction products with

2,4,4-trimethylpentene

**ACGIH TLV (United States)** 

TWA: 3 mg/m<sup>3</sup>. Form: Respirable dust. TWA: 10 mg/m<sup>3</sup>. Form: Total dust.

## **Biological exposure indices**

No exposure indices known.

**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)

**Appropriate engineering** controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**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.

#### 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.

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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.

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**: Wear work clothing with long sleeves.

Protective shoes or boots.

**Respiratory protection** 

: Ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry into confined spaces. In case of insufficient ventilation, wear suitable respiratory equipment. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

## 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

### **Appearance**

Physical state : Solid. [grease]
Color : Light brown.
Odor : Characteristic.
Odor threshold : Not available.
pH : Not applicable.

Melting point/freezing point : >300°C (>572°F) [ISO 3016]

Boiling point : Not applicable.
Flash point : Not applicable.
Evaporation rate : Not available.
Flammability (solid, gas) : Not applicable.
Lower and upper explosive : Not applicable.

(flammable) limits

Vapor pressure: Not applicable.Vapor density: Not applicable.Relative density: 0.9 [ISO 12185]

**Density** : 0.9 g/cm³ [20°C] [ISO 12185]

Solubility(ies) :

Media	Result
water	Not soluble

Miscible with water : No.

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Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature

Decomposition temperature

: Not applicable.: >300°C (>572°F)

Viscosity

: Dynamic (room temperature): Not applicable. Kinematic (room temperature): Not applicable. Kinematic (40°C (104°F)): Not applicable.

Flow time (ISO 2431) : Not available.

**Particle characteristics** 

Median particle size : Not available.

## Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

Incompatible materials : 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	
Distillates (petroleum), hydrotreated heavy	Rat - Oral - LD50	
naphthenic	>5000 mg/kg	
	OECD [401]	
	Rabbit - Dermal - LD50	
	>5000 mg/kg	
	OECD [402]	
	Rat - Inhalation - LC50 Dusts and mists	
	>5 mg/l [4 hours]	
	OECD [403]	
Residual oils (petroleum), hydrotreated	Rat - Oral - LD50	
	>5000 mg/kg	
	OECD [420]	
	Rabbit - Dermal - LD50	
	>5000 mg/kg	
	OECD [402]	
	Rat - Inhalation - LC50 Dusts and mists	
	>5.53 mg/l [4 hours]	
	OECD [403]	



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Residual oils (petroleum), solvent-dewaxed Rat - Oral - LD50

> >5000 mg/kg OECD [420]

Rabbit - Dermal - LD50

>5000 mg/kg OECD [402]

Rat - Inhalation - LC50 Dusts and mists

5.1 mg/l [4 hours] OECD [403]

Distillates (petroleum), solvent-dewaxed Rabbit - Dermal - LD50

heavy paraffinic

>5000 mg/kg OECD [402] Rat - Oral - LD50 >5000 mg/kg OECD [420]

Rat - Inhalation - LC50 Dusts and mists

>5 mg/l [4 hours] OECD [403]

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts

Rat - Male, Female - Oral - LD50

>5000 mg/kg

OECD [401 Read across]

Rabbit - Male, Female - Dermal - LD50

>4000 mg/kg

**OECD** 

Rat - Male, Female - Inhalation - LC50 Dusts and mists

>1.9 mg/l [4 hours]

EPA [OPP 81-3 Acute Inhalation Toxicity]

Benzenesulfonic acid, mono-C16-24-alkyl

derivs., calcium salts

Rat - Male, Female - Oral - LD50

>5000 ma/ka OECD [401]

Rabbit - Male, Female - Dermal - LD50

>5000 ma/ka OECD [402]

Rat - Male, Female - Inhalation - LC50 Dusts and mists

>1.9 mg/l [4 hours]

EPA [OPP 81-3 Acute Inhalation Toxicity Read across]

Sulfonic acids, petroleum, calcium salts Rat - Male - Oral - LD50

>16000 mg/kg

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Rabbit - Male, Female - Dermal - LD50

>4000 ma/ka

Rat - Male - Inhalation - LC50 Dusts and mists

>1.9 mg/l [4 hours]

EPA [OPP 81-3 Acute Inhalation Toxicity]

Benzenesulfonic acid, C10-13-alkyl derivs.,

Ca Salt

Rat - Female - Oral - LD50

4445 mg/kg

Rat - Male, Female - Dermal - LD50

>2000 mg/kg

OECD [402 Read across]

Limestone Rat - Oral - LD50

>5000 mg/kg

Benzenamine, N-phenyl-, reaction products

with 2,4,4-trimethylpentene

Rat - Male, Female - Oral - LD50

>5000 ma/ka OECD [401]

**Acute toxicity estimates** 

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Product/substance	Oral (mg/kg)	Dermal (mg/kg)	(gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
CERAN XM 220	118483.4	N/A	N/A	N/A	N/A
Residual oils (petroleum), solvent-dewaxed	N/A	N/A	N/A	N/A	5.1
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	N/A	2500	N/A	N/A	N/A
Sulfonic acids, petroleum, calcium salts	N/A	2500		N/A	N/A
Benzenesulfonic acid, C10-13-alkyl derivs., Ca Salt	4445	2500	N/A	N/A	N/A

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

## **Skin corrosion/irritation**

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

### Serious eye damage/eye irritation

Based on available data, the classification criteria are met.

## **Respiratory corrosion/irritation**

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

## Respiratory or skin sensitization

#### Skin

Based on available data, the classification criteria are 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. Contains sensitizer. May produce an allergic reaction.

#### Respiratory

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

### Germ cell mutagenicity

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

### Carcinogenicity

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

#### Reproductive toxicity

Based on available data, the classification criteria are met.

#### Specific target organ toxicity (single exposure)

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

## Specific target organ toxicity (repeated exposure)

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

## **Aspiration hazard**

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

Information on the likely routes of exposure

: Not available.

### Potential acute health effects

**Eye contact** : 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.

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## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation

watering redness

**Inhalation** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion**: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

## Delayed and immediate effects and also chronic effects from short and long term exposure

## Potential chronic health effects

Product/substance	Result
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Sub-acute - Rat - Male, Female - Oral - NOAEL OECD [407] 500 mg/kg Sub-acute - Rat - Male, Female - Dermal - NOAEL OECD [410] >1000 mg/kg Sub-acute - Rat - Male, Female - Inhalation - NOAEL Vapor OECD [412] 50 mg/m³ [28 days]

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 : Suspected of damaging fertility or the unborn child.

Other information :

Not available.

## **Section 12. Ecological information**

**Ecotoxicity** 

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Product/substance	Result
Distillates (petroleum), hydrotreated heavy	Acute - EC50
naphthenic	OECD [202]
	Daphnia - <i>Daphnia magna</i>
	>10000 mg/l [48 hours]
	Chronic - NOEC
	OECD [211]
	Daphnia - <i>Daphnia magna</i>
	10 mg/l [21 days]
Residual oils (petroleum), hydrotreated	Acute - EC50
	OECD [201]
	Algae - Pseudokirchnerella subcapitata
	>100 mg/l [48 hours]
	Acute - EC50
	OECD [202]
	Daphnia - <i>Daphnia magna</i>
	>10000 mg/l [48 hours]
	Chronic - NOEL
	Fish - Oncorhynchus mykiss
	>1000 mg/l [21 days]
	Chronic - NOEL
	OECD [211]
	Daphnia - <i>Daphnia magna</i>
	10 mg/l [21 days]
Residual oils (petroleum), solvent-dewaxed	Acute - EC50
	OECD [201]
	Algae - Pseudokirchnerella subcapitata
	>100 mg/l [48 hours]
	Acute - EC50
	OECD [202]
	Daphnia - Daphnia magna
	>10000 mg/l [48 hours]
	Chronic - NOEL
	Fish - Oncorhynchus mykiss
	>1000 mg/l [21 days]
	Chronic - NOEL
	OECD [211]
	Daphnia - Daphnia magna
District to the large of the la	10 mg/l [21 days]
Distillates (petroleum), solvent-dewaxed	Acute - EC50
heavy paraffinic	OECD [201]
	Algae - <i>Pseudokirchnerella subcapitata</i> >100 mg/l [72 hours]
	Acute - EC50
	OECD [202] Daphnia - <i>Daphnia magna</i>
	>10000 mg/l [48 hours]
	Chronic - NOEL
	Fish - Oncorhynchus mykiss
	>1000 mg/l [21 days]
	Chronic - NOEL
	OECD [211]
	Daphnia - Daphnia magna
	10 mg/l [21 days]
Benzenesulfonic acid, C10-16-alkyl derivs.,	Acute - LC50
calcium salts	OECD 203
	Fish - Cyprinodon variegatus
	. i.i. Oypiniodon vanogatao



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>1000 mg/l [96 hours]

Acute - EC50

**OECD 202** 

Crustaceans - Daphnia magna

>1000 mg/l [48 hours]

Effect: Mobility

Acute - EC50

**OECD 201** 

Algae - Pseudokirchneriella subcapitata

>1000 mg/l [72 hours] <u>Effect</u>: (growth rate) **Chronic - EC10** 

**OECD 201** 

Algae - Pseudokirchneriella subcapitata

>1000 mg/l [72 hours] <u>Effect</u>: (growth rate)

Acute - EC50 OECD 201

Algae - Pseudokirchneriella subcapitata

>1000 mg/l [72 hours] Effect: (growth rate)

Acute - EC50 OECD 202

Crustaceans - Daphnia magna

>1000 mg/l [48 hours]

Effect: Mobility
Acute - LC50
OECD 203

Fish - Cyprinodon variegatus

>1000 mg/l [96 hours]

Chronic - EC10

**OECD 201** 

Algae - Pseudokirchneriella subcapitata

>1000 mg/l [72 hours] Effect: (growth rate)

Acute - EC50

**OECD 201** 

Algae - Pseudokirchneriella subcapitata

>1000 mg/l [72 hours] Effect: (growth rate)

**Acute - EC50** OECD [202]

Crustaceans - Daphnia magna

>1000 mg/l [48 hours]

Effect: Mobility
Acute - LC50
OECD 203

Fish - Cyprinodon variegatus

>1000 mg/l [96 hours]

Chronic - EC10

**OECD 201** 

Algae - Pseudokirchneriella subcapitata

>1000 mg/l [72 hours] Effect: (growth rate)

Acute - LC50

STDMETH, ASTM and USEPA Fish - Lepomis macrochirus

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts

Sulfonic acids, petroleum, calcium salts

Benzenesulfonic acid, C10-13-alkyl derivs., Ca Salt

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1.67 mg/l [96 hours]

Acute - EC50

OECD [202]

Crustaceans - Daphnia magna

2.9 mg/l [48 hours]

Effect: Mobility

Acute - EC50

STDMETH, ASTM and USEPA 201

Algae - Pseudokirchneriella subcapitata

29 mg/l [96 hours] Effect: (growth rate)

**Chronic - NOEC** 

STDMETH, ASTM and USEPA 201

Algae - Pseudokirchneriella subcapitata

0.5 mg/l [96 hours] <u>Effect</u>: (growth rate) **Chronic - NOEC** 

OECD [211] Daphnia

0.379 mg/l [48 hours]

Acute - LC50 - Fresh water

OECD [203] Fish - *Danio rerio* >100 mg/l [96 hours] <u>Effect</u>: Mortality

Acute - EC50 - Fresh water

OECD [201]

Algae - Desmodesmus subspicatus

>100 mg/l [72 hours] Effect: (growth rate)

## Persistence and degradability

with 2,4,4-trimethylpentene

Benzenamine, N-phenyl-, reaction products

Product/substance	Result
Benzenesulfonic acid, C10-16-alkyl derivs.,	OECD 301D
calcium salts	0% [28 days] - Not readily
Benzenesulfonic acid, mono-C16-24-alkyl	OECD 301D
derivs., calcium salts	0% [28 days] - Not readily
Sulfonic acids, petroleum, calcium salts	OECD 301D
·	0% [28 days] - Not readily
Benzenesulfonic acid, C10-13-alkyl derivs.,	OECD 301B
Ca Salt	>90% [28 days] - Readily
Benzenamine, N-phenyl-, reaction products	OECD [301B]
with 2,4,4-trimethylpentene	1% [28 days]

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

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calcium salts				
Sulfonic acids, petroleum,	-	-	Not readily	
calcium salts			_	
Benzenesulfonic acid,	-	-	Readily	
C10-13-alkyl derivs., Ca Salt				
Limestone	-	-	Not readily	
Benzenamine, N-phenyl-,	-	-	Not readily	
reaction products with				
2,4,4-trimethylpentene				
• •				

### **Bioaccumulative potential**

Product/substance	LogK <sub>ow</sub>	BCF	Potential
Distillates (petroleum), solvent-dewaxed heavy paraffinic	6.1	-	High
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	22	-	High
Benzenesulfonic acid, C10-13-alkyl derivs., Ca Salt	2.89	-	Low
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	5.1	1730	High

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

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.

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## **Section 14. Transport information**

	DOT Classification	IMDG	ICAO/IATA
UN/ID No	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

## **Additional information**

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

**U.S. Federal regulations** : TSCA 8(a) PAIR: diphenylamine

## TSCA 12(b) - Chemical export notification

Not applicable.

Clean Air Act Section 112

(b) Hazardous Air

**Pollutants (HAPs)** 

Clean Air Act Section 602

**Class I Substances** 

Clean Air Act Section 602

**Class II Substances** 

**DEA List I Chemicals** 

: Not listed

: Not listed

: Not listed

: Not listed

(Precursor Chemicals)

: Not listed

**DEA List II Chemicals** (Essential Chemicals)

**SARA 302/304** 

### **Composition/information on ingredients**

No products were found.

**SARA 304 RQ** 

: Not applicable.

**SARA 311/312** 

Classification : EYE IRRITATION - Category 2A

TOXIC TO REPRODUCTION - Category 2

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### **Composition/information on ingredients**

Name	%	Classification
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	≤10	SKIN SENSITIZATION - Category 1B
Benzenesulfonic acid, mono- C16-24-alkyl derivs., calcium salts	≤3	SKIN SENSITIZATION - Category 1B
Sulfonic acids, petroleum, calcium salts	≤3	SKIN SENSITIZATION - Category 1B
Benzenesulfonic acid, C10-13-alkyl derivs., Ca Salt	<3	SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	≤1	TOXIC TO REPRODUCTION - Category 2

#### State regulations

**Massachusetts** : The following components are listed: OIL MIST, MINERAL; OIL MIST, MINERAL; OIL

MIST, MINERAL; OIL MIST, MINERAL; CALCIUM CARBONATE

**New York** : None of the components are listed.

**New Jersey** : The following components are listed: CALCIUM CARBONATE

**Pennsylvania** : The following components are listed: LIMESTONE

California Prop. 65

To the best of our knowledge, this product does not contain any substances known to the State of California to cause cancer, developmental and/or reproductive harm

### 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 (DSL/NDSL) : All components are listed or exempted. **China inventory (IECSC)** : All components are listed or exempted. **Europe inventory (EC)** : All components are listed or exempted.

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

Japan inventory (ISHL): All components are listed or

: All components are listed or exempted.

exempted.

**New Zealand Inventory of Chemicals (NZIoC)** 

**Philippines inventory (PICCS)** 

: All components are listed or exempted. **Korea inventory (KECI)** : All components are listed or exempted.

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Taiwan Chemical Substances Inventory (TCSI) : All components are listed or exempted.

Thailand inventory : Not determined.

Turkey inventory : Not determined.

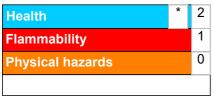
United States inventory (TSCA 8b) : All components are listed or exempted.

Vietnam inventory : Not determined.

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

## Section 16. Other information

## **Hazardous Material Information System (U.S.A.)**



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

#### **National Fire Protection Association (U.S.A.)**



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### Procedure used to derive the classification

Classification	Justification
5 ,	Calculation method Expert judgment

### **History**

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#### Key to abbreviations

: ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous

Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

EC50 = Half maximal effective concentration

EL50 = median Effective Loading

IATA = International Air Transport Association IC50 = Half maximal inhibitory concentration IDHL = Immediately dangerous to life or health IMDG = International Maritime Dangerous Goods

LC50 = Median lethal concentration

LD50 = Median lethal dose LL50 = median Lethal Loading

LogKow = logarithm of the octanol/water partition coefficient

N/A = Not available

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level NOEC No Observed Effect Concentration

NOEL = No Observed Effect Level

NOELR = No observed Effect Loading Rate

OECD = Organisation for Economic Co-operation and Development

OEL = Occupational Exposure Limit POP = Persistent Organic Pollutants

QSAR = Quantitative Structure—Activity Relationship

REL = Recommanded Exposure Limit

RID = The Regulations concerning the International Carriage of Dangerous Goods by

Rail

STEL = Short Term Exposure Limit

TLV = Threshold Limit Value
TWA = Time Weight Average
VOC = Volatile Organic Compound

UVCB Substance of unknown or Variable composition, Complex reaction products or

Biological material

#### References

: Not available.

▼ Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot quarantee that these are the only hazards that exist.

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