

### SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

# **NEVASTANE XS 320**

**SDS #:** 081733

### **Section 1. Identification**

GHS product identifier : NEVASTANE XS 320

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

**Identified uses** 

Extreme pressure

Grease for incidental food contact

Lubricating grease

**Supplier's details**: TotalEnergies Marketing USA, Inc.

1201 Louisiana St. Suite 1800

Houston, TX 77002 Phone: 713-483-5000

ProductSafety@totalenergies.com

TotalEnergies Marketing Puerto Rico Corp Millennium Park Plaza, #15 Road 2, Suite 525

Guaynabo, P.R. 00968 Phone: 1-787-783-4625

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** 

: 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)	CAS number
<b>⊮</b> enzenesulfonic acid, C10-13-alkyl derivs., Ca Salt	<3	26264-06-2
ALKYL NAPHTHALENE SULFONIC ACID, CALCIUM SALT	≤3	-
Dec-1-ene, homopolymer, hydrogenated	≤3	68037-01-4
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	<1	68411-46-1

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

Additional information

: The product is made from synthetic base oils

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

### Section 4. First aid measures

### **Description of necessary first aid measures**

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If 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

: Flush contaminated skin with plenty of water. 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 : No known significant effects or critical hazards.

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**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:

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)

### 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.

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

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.

Remark : Yes.

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### 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 nonemergency 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. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

### **Precautions for safe handling**

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). 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.

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. See Section 10 for incompatible materials before handling or use.

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### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
<b>B</b> enzenesulfonic acid, dodecyl-, calcium salt	None.
ALKYL NAPHTHALENE SULFONIC ACID, CALCIUM SALT	None.
Dec-1-ene, homopolymer, hydrogenated	None.
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	ACGIH TLV (United States).
	TWA: 3 mg/m³ Form: Respirable dust
	TWA: 10 mg/m³ Form: Total dust

### **Biological exposure indices**

No exposure indices known.

#### **Advisory OEL**

: No known significant effects or critical hazards.

# 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.

### **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**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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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 : Brown.

Odor : Characteristic. **Odor threshold** : Not available. pН : Not applicable.

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

**Boiling point** : Not applicable. : Not applicable. Flash point : Not available. **Evaporation rate** 

Flammability (solid, gas) : Yes.

Lower and upper explosive

(flammable) limits

: Not applicable.

Vapor pressure : Not applicable. Vapor density : Not applicable. **Relative density** : 0.9 [ASTM D 4052]

**Density** : 0.9 g/cm³ [20°C] [ASTM D 4052]

Solubility(ies)

Media	Result
water	Not soluble

Miscible with water : No.

Partition coefficient: n-

octanol/water

**Viscosity** 

: >3.5

**Auto-ignition temperature** : Not applicable. **Decomposition temperature** 

: >300°C (>572°F)

: 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

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

**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.

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Conditions to avoid : No specific data.

Incompatible materials : Strong oxidizing agents

**Hazardous decomposition** 

products

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

### **Section 11. Toxicological information**

### Information on toxicological effects

### **Acute toxicity**

Product/substance	Result	Species	Dose	Exposure	Test
<b>B</b> enzenesulfonic acid,	LD50 Dermal	Rat - Male,	>2000 mg/kg	-	OECD 402
C10-13-alkyl derivs., Ca Salt		Female			Read across
-	LD50 Oral	Rat - Female	4445 mg/kg	-	-
ALKYL NAPHTHALENE	LD50 Oral	Rat	>2000 mg/kg	-	-
SULFONIC ACID, CALCIUM					
SALT					
Dec-1-ene, homopolymer,	LC50 Inhalation Dusts	Rat	5.3 mg/l	4 hours	-
hydrogenated	and mists				
	LD50 Dermal	Rat	>2000 mg/kg	-	-
	LD50 Oral	Rat	>5000 mg/kg	-	-
Benzenamine, N-phenyl-,	LD50 Oral	Rat	>2500 mg/kg	-	-
reaction products with					
2,4,4-trimethylpentene					

**Conclusion/Summary** 

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

### **Irritation/Corrosion**

Product/substance	Result	Species	Score	Exposure	Test
Senzenesulfonic acid, C10-13-alkyl derivs., Ca Salt	Eyes - Irritant	Rabbit	1	-	OECD 405
,	Skin - Erythema/Eschar	Rabbit	2.7	4 hours	OECD 404

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.

### **Sensitization**

Froduct/substance	Route of exposure	Species	Result
<b>B</b> enzenesulfonic acid, C10-13-alkyl derivs., Ca Salt	skin	Guinea pig	Not sensitizing

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

**Mutagenicity** 

**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.

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**Reproductive toxicity** 

**Conclusion/Summary**: Based on available data, the classification criteria are met.

**Teratogenicity** 

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

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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

**Aspiration hazard** 

Name	Result
<b>万</b> ec-1-ene, homopolymer, hydrogenated	ASPIRATION HAZARD - Category 1

Conclusion/Summary : 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
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 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** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

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

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

**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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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 : Suspected of damaging fertility or the unborn child.

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
₩EVASTANE XS 320	73313.8	7246.4	N/A	N/A	N/A
Benzenesulfonic acid, C10-13-alkyl derivs., Ca Salt	4445	2500	N/A	N/A	N/A
ALKYL NAPHTHALENE SULFONIC ACID, CALCIUM SALT	2500	N/A	N/A	N/A	N/A
Dec-1-ene, homopolymer, hydrogenated	N/A	N/A	N/A	N/A	5.3
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	2500	N/A	N/A	N/A	N/A

Other information

Not available.

# Section 12. Ecological information

### **Toxicity**

Product/substance	Result	Species	Exposure	Test
Benzenesulfonic acid, C10-13-alkyl derivs., Ca Salt	Acute EC50 29 mg/l	Algae - Pseudokirchneriella subcapitata	96 hours	STDMETH, ASTM and USEPA 201
	Acute EC50 2.9 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Acute LC50 1.67 mg/l	Fish - Lepomis macrochirus	96 hours	STDMETH, ASTM and USEPA
	Chronic NOEC 0.5 mg/l	Algae - Pseudokirchneriella subcapitata	96 hours	STDMETH, ASTM and USEPA 201
	Chronic NOEC 0.379 mg/l	Daphnia	48 hours	OECD 211
Dec-1-ene, homopolymer, hydrogenated	Acute EC50 >1000 mg/l	Algae - Scenedesmus capricornutum	72 hours	OECD 201
	Acute EC50 191 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours	-
	Acute LC50 751 mg/l	Fish	96 hours	-
	Acute NOEL 1000 mg/l	Algae - Scenedesmus capricornutum	72 hours	OECD 201
	Chronic NOEL 125 mg/l	Daphnia - Daphnia magna	21 days	OECD 211

### Persistence and degradability

Product/substance	Test	Result	Dose	Inoculum
Benzenesulfonic acid, C10-13-alkyl derivs., Ca Salt	OECD 301B	>90 % - Readily - 28 days	-	Activated sludge



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Product/substance	Aquatic half-life	Photolysis	Biodegradability
Benzenesulfonic acid, C10-13-alkyl derivs., Ca Salt	-	-	Readily
ALKYL NAPHTHALENE SULFONIC ACID, CALCIUM	-	-	Readily
SALT Dec-1-ene, homopolymer,	-	-	Not readily
hydrogenated Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	-	-	Not readily

### **Bioaccumulative potential**

Product/substance	LogKow	BCF	Potential
₩EVASTANE XS 320	>3.5	-	Low
Benzenesulfonic acid,	2.89	-	Low
C10-13-alkyl derivs., Ca Salt			
ALKYL NAPHTHALENE	6.6	-	High
SULFONIC ACID, CALCIUM			
SALT			
Dec-1-ene, homopolymer,	>6.5	-	High
hydrogenated			
Benzenamine, N-phenyl-,	5.1	1730	High
reaction products with			
2,4,4-trimethylpentene			

#### **Mobility in soil**

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

: 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 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Not listed

Clean Air Act Section 602

**Class I Substances** 

: Not listed

Clean Air Act Section 602

**Class II Substances** 

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

**DEA List II Chemicals** 

: Not listed

(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** 

**Composition/information on ingredients** 

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Name	%	Classification
Senzenesulfonic acid, C10-13-alkyl derivs., Ca Salt	<3	SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1
ALKYL NAPHTHALENE SULFONIC ACID, CALCIUM SALT	≤3	EYE IRRITATION - Category 2A
Dec-1-ene, homopolymer, hydrogenated	≤3	ASPIRATION HAZARD - 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; 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.

: At least one component is not listed in DSL but all such Canada inventory (DSL/NDSL)

components are listed in NDSL.

: All components are listed, exempted, or notified. China inventory (IECSC)

**Europe inventory (EC)** : All components are listed or exempted.

Japan inventory : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): At least one component is not listed.

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

: All components are listed or exempted. **Philippines inventory (PICCS)** : At least one component is not listed.

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

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

Thailand inventory : Not determined.

**Turkey inventory** : At least one component is not listed.

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

: Not determined. Vietnam inventory

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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.

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



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### Procedure used to derive the classification

Classification	Justification
1	Calculation method Calculation method

#### **History**

Date of revision : 2023/09/21 previous revision date : 2022/10/20

Version : 2.03

**Key to abbreviations** : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

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N/A = Not available SGG = Segregation Group UN = United Nations

**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.

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Date of revision : 2023/09/21 2.03 USA ENGLISH 14/14