

## SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

# **MULTIS COMPLEX EP 2**

SDS # :

30935

## Section 1. Identification

**GHS product identifier** 

: MULTIS COMPLEX EP 2

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

Identified uses	
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

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OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	: Not classified.
GHS label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazards not otherwise classified	: None known.

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## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	% (w/w)	CAS number
dilithium azelate	≤3	38900-29-7
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	≤2.2	68442-22-8

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

Additional : 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. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important sympto	ms/effects, acute and delayed		
Potential acute health	<u>effects</u>		
Eye contact	: No known significant effects or critical hazards.		
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/s	symptoms		
Eye contact	: No specific data.		
Inhalation	: No specific data.		
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking		
Ingestion	: No specific data.		
Indication of immediate medical attention and special treatment needed, if necessary			
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>		
Specific treatments	: No specific treatment.		

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

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

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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 Silicon Dioxide phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans Zinc oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
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.

## Section 6. Accidental release measures

Personal precautions, protec	ive 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. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, 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.



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## Section 7. Handling and storage

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Ingredient name		Exposure limits
dilithium azelate Phosphorodithioic acid, mix zinc salts	xed O,O-bis(2-ethylhexyl and iso-Bu) est	ers, None.
Advisory OEL	: Mineral oil mist: USA: OSHA (PEL 10 mg/m3, ACGIH (TLV) TWA 5 r	) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL ng/m3 (highly refined)
Appropriate engineering controls	: Good general ventilation should be contaminants.	e sufficient to control worker exposure to airborne
Environmental exposure controls	they comply with the requirements	process equipment should be checked to ensure of environmental protection legislation. In some ngineering modifications to the process equipment ons to acceptable levels.
Individual protection meas	ures	
Hygiene measures	eating, smoking and using the lava Appropriate techniques should be	noroughly after handling chemical products, before atory and at the end of the working period. used to remove potentially contaminated clothing. re reusing. Ensure that eyewash stations and safety on location.
Eye/face protection <u>Skin protection</u>	: In case of contact through splashing	ng: safety glasses with side-shields.
Hand protection	worn at all times when handling ch necessary. Hydrocarbon-proof gloves Fluorinated rubber nitrile rubber Please observe the instructions re provided by the supplier of the glov	oves complying with an approved standard should be nemical products if a risk assessment indicates this is garding permeability and breakthrough time which are ves. Also take into consideration the specific local t is used, such as the danger of cuts, abrasion, and
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Body protection	<ul> <li>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.</li> </ul>
Other skin protection	<ul> <li>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.</li> </ul>
Respiratory protection	: None under normal use conditions. If these are not sufficient to maintain exposure below the OEL, suitable respiratory protection must be worn.

## 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

<u>Appearance</u>				
Physical state	:	Solio	d.	
Color	:	Red		
Odor	:	: Characteristic.		
Odor threshold	:	Not	available.	
рН	:	Not	applicable.	
Melting point/freezing point	:	>25	0°C (>482°F)	
Boiling point	:	Tec	hnically not possible to measure	
Flash point	:	Not	applicable.	
Evaporation rate	:	Not	available.	
Flammability (solid, gas)	:	Yes		
Lower and upper explosive (flammable) limits	:	: Not applicable.		
Vapor pressure	:	: Not applicable.		
Vapor density	: Not applicable.			
Relative density	:	: 0.9		
Density	:	0.9 ថ្	g/cm³ [20°C]	
Solubility(ies)	:			
Media			Result	
water			Not soluble	
Miscible with water	:	No.		
Partition coefficient: n- octanol/water	:	>3.5		
Auto-ignition temperature	1	Not	applicable.	
Decomposition temperature	1	>25	0°C (>482°F)	
Viscosity	: Kinematic (40°C (104°F)): Not applicable.			
Flow time (ISO 2431)	:	: Not available.		
Particle characteristics				



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# 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	: No specific data.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: carbon monoxide carbon dioxide Silicon Dioxide phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans Zinc oxides

## Section 11. Toxicological information

### Information on toxicological effects

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Product/substance	Result	Species	Dose	Exposure	Test
dilithium azelate	LD50 Dermal	Rat	>2000 mg/kg	-	-
	LD50 Oral	Rat	301 mg/kg	-	-
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	LD50 Dermal	Rabbit	>2000 mg/kg	-	OECD 402 Acute Dermal Toxicity
	LD50 Oral	Rat	>2000 mg/kg	-	EPA

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

#### Irritation/Corrosion

Product/substance	Result	Species	Score	Exposure	Test
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Irritant	Rabbit	-	-	OECD 404 Acute Dermal Irritation/ Corrosion
Skin	Based on available data,	the classificatio	n criteria are	not met.	
Eyes	: Based on available data,	the classificatio	n criteria are	not met.	
Respiratory	: Based on available data,	the classificatio	n criteria are	not met.	

### **Sensitization**



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Product/substance	Route of exposure	Speci	es		Result		
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	skin	Guinea	Guinea pig		Not sensitizi	ng	
Skin :			the classification				
Respiratory	Based on av	allable data,	the classification	criteria a	are not met.		
<u>Mutagenicity</u>			1				
Product/substance	Test		Experiment			Result	
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	OECD 471 B Reverse Muta OECD 476 In Mammalian ( Mutation Tes	ation Test 1 <i>vitro</i> Cell Gene	Experiment: In vi Subject: Bacteria Cell: Somatic Experiment: In vi Subject: Mamma	a itro	mal	Negative Negative	
	OECD 474 N Erythrocyte Micronucleus	lammalian	Experiment: In vi Subject: Mamma Cell: Somatic		mal	Negative	
Conclusion/Summary :	Based on ava	ailable data,	the classification of	criteria a	re not met.		
Carcinogenicity							
Conclusion/Summary	Based on ava	ailable data, t	the classification of	criteria a	re not met.		
Reproductive toxicity							
Product/substance	Maternal toxicity	Fertility	Development toxin	Specie	5	Dose	Exposure
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	Negative	Negative	Negative	Rat		Oral: 160 mg/kg NOAEL	-
Conclusion/Summary	Based on ava	ailable data, t	the classification of	criteria a	re not met.		
<u>Teratogenicity</u> Conclusion/Summary	: Based on av	ailable data,	the classification	criteria a	are not met.		
Specific target organ toxicity	(single expo	<u>sure)</u>					
	: Based on av	ailable data,	the election				
Specific target organ toxicity			the classification	criteria a	are not met.		
		<u>posure)</u>					
Conclusion/Summary		<u>posure)</u>	, the classification				
	: Based on a	posure) vailable data		criteria	are not met.		
Conclusion/Summary <u>Aspiration hazard</u> Conclusion/Summary	: Based on a	<mark>posure)</mark> vailable data vailable data	, the classification	criteria	are not met.		
Conclusion/Summary <u>Aspiration hazard</u> Conclusion/Summary nformation on the likely	: Based on a : Based on a	<mark>posure)</mark> vailable data vailable data	, the classification	criteria	are not met.		
Conclusion/Summary <u>Aspiration hazard</u> Conclusion/Summary nformation on the likely outes of exposure <u>Potential acute health effects</u>	: Based on a : Based on a : Not availabl	posure) vailable data vailable data e.	, the classification	o criteria	are not met.		
Conclusion/Summary <u>Aspiration hazard</u> Conclusion/Summary nformation on the likely outes of exposure <u>Potential acute health effects</u>	: Based on a : Based on a : Not availabl : No known s	posure) vailable data vailable data e. ignificant effe	, the classification , the classification	criteria criteria zards.	are not met.		
Conclusion/Summary Aspiration hazard Conclusion/Summary nformation on the likely outes of exposure Potential acute health effects Eye contact	<ul> <li>Based on a</li> <li>Based on a</li> <li>Based on a</li> <li>Not available</li> <li>No known s</li> <li>No known s</li> </ul>	posure) vailable data vailable data e. ignificant effe	, the classification , the classification ects or critical haz	criteria criteria criteria zards.	are not met. are not met.		
Conclusion/Summary <u>Aspiration hazard</u> Conclusion/Summary nformation on the likely outes of exposure <u>Potential acute health effects</u> Eye contact Inhalation	<ul> <li>Based on a</li> <li>Based on a</li> <li>Based on a</li> <li>Not available</li> <li>No known s</li> <li>No known s</li> <li>Defatting to</li> </ul>	posure) vailable data vailable data e. ignificant effe ignificant effe the skin. Ma	, the classification , the classification ects or critical haz ects or critical haz	criteria criteria zards. zards. ness anc	are not met. are not met.		
Conclusion/Summary Aspiration hazard Conclusion/Summary nformation on the likely outes of exposure Potential acute health effects Eye contact Inhalation Skin contact	<ul> <li>Based on a</li> <li>Based on a</li> <li>Based on a</li> <li>Not available</li> <li>No known s</li> <li>No known s</li> <li>Defatting to</li> <li>No known s</li> </ul>	posure) vailable data vailable data e. ignificant effe ignificant effe the skin. Ma ignificant effe	, the classification , the classification ects or critical haz ects or critical haz ay cause skin dryr ects or critical haz	criteria criteria zards. zards. ness and zards.	are not met. are not met.		



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Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.

Delayed and immediate effec	ts and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

#### Potential chronic health effects

Product/substance	Result	Species	Dose	Exposure
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	Sub-acute NOAEL Oral	Rat	160 mg/kg	-
General	: No known significant effects of	r critical hazards.		
Carcinogenicity	: No known significant effects of	r critical hazards.		
Mutagenicity	: No known significant effects of	r critical hazards.		
Reproductive toxicity	: No known significant effects of	r critical hazards.		

### 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)
MULTIS COMPLEX EP 2 dilithium azelate Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	10835.8 301 2500	209898.5 N/A 2500	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A

#### Other information

Not available.

## Section 12. Ecological information

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**Toxicity** 

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Product/substance	Result	Species	Exposure	Test
dilithium azelate	Acute LC50 >100 mg/l Acute LC50 >100 mg/l	Algae Daphnia	72 hours 48 hours	-
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	Acute EC50 24 mg/l	Algae - Scenedesmus subspicatus	72 hours	OECD 201
, ,	Acute EC50 23 mg/l Acute LC50 4.5 mg/l Acute NOEC 0.4 mg/l	Daphnia - Daphnia Magna Fish Daphnia - Daphnia Magna	48 hours 96 hours 21 days	OECD 202 - -

#### Persistence and degradability

Product/substance	Aquatic half-life	Photolysis	Biodegradability
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	-	-	Not readily

#### **Bioaccumulative potential**

Product/substance	LogK <sub>ow</sub>	BCF	Potential
MULTIS COMPLEX EP 2 Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	>3.5 1.67		low low

<u>Mobility in soil</u>	
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. 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



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	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

	iso-Bu) esters, zinc salts; Naphthenic acids, zinc salts Clean Water Act (CWA) 311: maleic anhydride
	Clean Water Act (CWA) 511. maleic annydride
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: 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 (Essential Chemicals)	: Not listed
<u>SARA 302/304</u>	
Composition/information	on ingredients
No products were found.	
SARA 304 RQ	: Not applicable.
SARA 311/312	
Classification	: Not applicable.
Date of revision : 2023/06/08	1 USA ENGLISH 10/13

Date	of revision	: 2023
Date	or revision	2023



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

Name	%	Classification
dilithium azelate 1-Propene, 2-methyl-, sulfurized Phosphorodithioic acid, mixed O, O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	≤3 ≤2.2	ACUTE TOXICITY (oral) - Category 4 FLAMMABLE LIQUIDS - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso-Bu) esters, zinc salts	68442-22-8	≤2.2
Supplier notification	Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso-Bu) esters, zinc salts	68442-22-8	≤2.2

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

Massachusetts	<ul> <li>The following components are listed: OIL MIST, MINERAL; OIL MIST, MINERAL; OIL MIST, MINERAL; OIL MIST, MINERAL</li> </ul>
New York	: None of the components are listed.
New Jersey	: The following components are listed: ZINC compounds
Pennsylvania	: The following components are listed: ZINC COMPOUNDS
<u>California Prop. 65</u>	

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.

Inve	ento	ory	<u>list</u>	

Australia inventory (AlIC): 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: Japan inventory (ISHL): Not determined.

### New Zealand Inventory of Chemicals (NZIoC) Philippines inventory (PICCS)

- : At least one component is not listed.
- : All components are listed or exempted.



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### Korea inventory (KECI)

**Taiwan Chemical Substances Inventory (TCSI)** 

- Thailand inventory
- **Turkey inventory**

United States inventory (TSCA 8b)

Vietnam inventory

- : All components are listed or exempted.
- : All components are listed or exempted.
- : Not determined.
- : Not determined.
- : All components are listed or exempted.
- : 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	
Not classified.			
History			
Date of revision	: 2023/06/08		
previous revision date	: No previous validation		
Version	: 1		

Date of revision	: 2023/06/08
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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 = Internediate 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) 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.

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.