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SECTION 1. IDENTIFICATION

Product name Product code	: ROTOSTAR AQUA 415 PALE GOLD 1502-21 : 046499CT0
Manufacturer or supplier's d	etails
Company name of supplier	: ECKART America Corporation
Address	: 830 East Erie Street
	Painesville OH 44077
Telephone	: 866-458-7837
	(440) 954-7600
Telefax	: (440) 354-6224
e-mail adresse	: info.eckart.america.oh@altana.com
Emergency telephone	: CHEMTREC: 800-424-9300
	CHEMTREC: 1-703-527-3387 (International)
	NCEC:
	(contract no. ECKART29003-NCEC)
	US: +1 866 928 0789 (Toll free)
	Canada: +1 800 579 7421 (Toll Free)
	Mexico: +52 55 5004 8763

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accord 1910.1200)	anc	e with the OSHA	Hazard Communication Standard (29 CFR
Acute toxicity (Oral)	:	Category 4	
Eye irritation	:	Category 2A	
GHS label elements			
Hazard pictograms	:		
Signal Word	:	Warning	
Hazard Statements	:	H302 Harmful if s H319 Causes se	swallowed. rious eye irritation.
Precautionary Statements	:	Prevention: P264	Wash skin thoroughly after handling.
		P270	Do not eat, drink or smoke when using this
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		P280	product. Wear eye protection/ face protection.
		Response: P301 + P312 + I	P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
		P305 + P351 +	P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P337 + P313	If eye irritation persists: Get medical advice/ attention.
		Disposal:	
		P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous ingredients which must be listed on the label: Copper

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Copper	7440-50-8	>= 30 - < 50
Styrene/acrylic copolymer	Not Assigned	>= 1 - < 5
Zinc	7440-66-6	>= 1 - < 5
2-Propanol	67-63-0	>= 1 - < 5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	 Take the victim into fresh air. Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.
lf inhaled	 If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact In case of eye contact	Wash off immediately with soap and plenty of water.Immediately flush eye(s) with plenty of water.





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If swallowed Most important symptoms and effects, both acute and delayed		 Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Harmful if swallowed. Causes serious eye irritation. 		
SECTION	5. FIRE-FIGHTING ME	ASURES		
	ble extinguishing media table extinguishing	 Special powd Dry sand ABC powder Water High volume v 	er against metal fire vater iet	
	fic hazards during fire	Carbon dioxic	Carbon dioxide (CO2) : Do not allow run-off from fire fighting to enter drains or water	
Speci	er information al protective equipment e-fighters	 Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. must not be discharged into drains. Fire residues and contaminated fire extinguishing water n be disposed of in accordance with local regulations. Wear self-contained breathing apparatus for firefighting it necessary. 		
SECTION	6. ACCIDENTAL RELE	ASE MEASURES		
protec	ersonal precautions, : Evacuate personnel to safe areas. otective equipment and Ensure adequate ventilation. nergency procedures Use personal protective equipment.		ate ventilation.	
	ral advice	courses or the Prevent produ Prevent furthe If the product respective aut	uct from entering drains. er leakage or spillage if safe to do so. contaminates rivers and lakes or drains inform horities. hould not be allowed to enter drains, water	
		Prevent furthe	uct from entering drains. er leakage or spillage if safe to do so.	





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		If the product respective aut	contaminates rivers and lakes or drains inform horities.
	hods and materials for tainment and cleaning up	: Use mechanic	al handling equipment.
		Do not flush w Contain spilla absorbent mat vermiculite) ar local / nationa Soak up with i	ge, and then collect with non-combustible terial, (e.g. sand, earth, diatomaceous earth, nd place in container for disposal according to I regulations (see section 13). nert absorbent material (e.g. sand, silica gel,
			niversal binder, sawdust). Ie, closed containers for disposal.
ECTIO	N 7. HANDLING AND ST	ORAGE	
	ice on protection against and explosion	: Keep away fro No smoking.	om heat and sources of ignition.
		Normal measu	ares for preventive fire protection.
Adv	ice on safe handling	For personal p Smoking, eatin application are	with skin and eyes. protection see section 8. ng and drinking should be prohibited in the
Con	ditions for safe storage	: Keep away fro Do not store n Keep containe To maintain pu sunlight. Keep containe place. Containers wh kept upright to Electrical insta	om sources of ignition - No smoking. ear combustible materials. ers tightly closed in a cool, well-ventilated place. roduct quality, do not store in heat or direct er tightly closed in a dry and well-ventilated ich are opened must be carefully resealed and o prevent leakage. allations / working materials must comply with ical safety standards.
	nnical Isures/Precautions		umidity and water.
Mat	erials to avoid		om oxidizing agents, strongly alkaline and naterials in order to avoid exothermic reactions.







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Do not store together with oxidizing and self-igniting products.

Further information on	:	No decomposition if stored and applied as directed.
storage stability		

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Copper	7440-50-8	TWA	1 mg/m3 (Copper)	ACGIH
		TWA (dust and mists)	1 mg/m3 (Copper)	NIOSH REL
		TWA	1 mg/m3 (Copper)	OSHA P0
		TWA	0.2 mg/m3 (Copper)	ACGIH
		TWA	0.1 mg/m3 (Copper)	OSHA P0
		TWA (Dust and mist)	1 mg/m3 (Copper)	ACGIH
		TWA (Fumes)	0.2 mg/m3 (Copper)	ACGIH
		TWA (Dust)	1 mg/m3 (Copper)	NIOSH REL
		TWA (Mist)	1 mg/m3 (Copper)	NIOSH REL
		TWA (dusts and mists)	1 mg/m3 (Copper)	OSHA Z-1
		TWA (Fumes)	0.1 mg/m3 (Copper)	OSHA Z-1
		TWA (Fumes)	0.1 mg/m3 (Copper)	OSHA P0
		TWA (Dust and mist)	1 mg/m3 (Copper)	OSHA P0
Zinc	7440-66-6	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m3	OSHA Z-3
		TWA (respirable	5 mg/m3	OSHA Z-3



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		fraction)		
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
2-Propanol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m3	NIOSH REL
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1
		TWA	400 ppm 980 mg/m3	OSHA P0
		STEL	500 ppm 1,225 mg/m3	OSHA P0

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissible concentratio n	Basis
2-Propanol	67-63-0	Acetone	Urine	End of shift at end of workwee k	40 mg/l	ACGIH BEI

Personal protective equipment

Respiratory protection	:	Use suitable breathing protection if workplace concentration requires. Equipment should conform to EN 14387
Hand protection		
Material	:	Solvent-resistant gloves (butyl-rubber)
Remarks	÷	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. 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



octanol/water

Viscosity

Autoignition temperature

Decomposition temperature



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		Recommende washed after	es, abrasion, and the contact time. ed preventive skin protection Skin should be contact. The suitability for a specific workplace scussed with the producers of the protective	
Eye p	protection		es nield and protective suit for abnormal processing	
Skin	and body protection		/ protection according to the amount and of the dangerous substance at the work place.	
Hygie	ene measures	 General industrial hygiene practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday. 		
SECTION	9. PHYSICAL AND CH	EMICAL PROPER	TIES	
Color Odor		: liquid : gold : characteristic : No data avai : 6 - 8 Concentratio	ilable	
	ng point/range ng point/boiling range	: Not applicab : > 100 °C	le	
Flash	point	: >100 °C		
Flam Uppe	oration rate mability (solid, gas) r explosion limit / Upper	: No data avai : No data avai : No data avai	ilable	
Lowe	nability limit r explosion limit / Lower nability limit	: No data avai	ilable	
Vapo	r pressure ive density	: No data avai : No data avai : 1.4 - 1.5 g/c	ilable	
		. 1.0 g/0		
W Partit	bility(ies) ater solubility ion coefficient: n- pol/water	: insoluble : No data avai	ilable	

: No data available

: No data available

: No data available





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Volatile organic bounds (VOC) content	<u>:</u> 1.00 - 3.00 %		
10. STABILITY AND F	REACTIVITY		
tivity hical stability ibility of hazardous ions	: No decompos : Stable under	sition if stored and applied as directed. sition if stored and applied as directed. recommended storage conditions. sition if stored and applied as directed.	
litions to avoid	: Do not allow evaporation to dryness. No data available		
rdous decomposition nal decomposition	-	xide, carbon dioxide and unburned (smoke).	
	08/28/2024 Volatile organic bounds (VOC) content 10. STABILITY AND F tivity nical stability ibility of hazardous ions litions to avoid rdous decomposition	08/28/2024 102000026927 Volatile organic bounds (VOC) content : 1.00 - 3.00 % 10. STABILITY AND REACTIVITY tivity nical stability ibility of hazardous : No decomposition No decomposition itions to avoid : Do not allow e No data availa rdous decomposition : Carbon mono	

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity Harmful if swallowed.		
Components:		
Copper:		
Acute oral toxicity	:	Assessment: The component/mixture is moderately toxic after single ingestion.
Zinc:		
Acute oral toxicity	:	(Rat): > 2,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 5.41 mg/l Exposure time: 4 h Test atmosphere: dust/mist
2-Propanol:		
Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.





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Components:

Copper:

Remarks: May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Copper: Result: Eye irritation

2-Propanol: Result: Eye irritation

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.





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Components:

2-Propanol: Assessment: May cause drowsiness or dizziness.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Components:

Copper: Remarks: No data available

Zinc:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:		
Copper:		
M-Factor (Acute aquatic toxicity)	:	10
M-Factor (Chronic aquatic toxicity)	:	10
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.
Zinc:		
M-Factor (Acute aquatic toxicity)	:	1
M-Factor (Chronic aquatic toxicity)	:	1
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Very toxic to aquatic life.







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Chro	nic aquatic toxicity	: Very toxic to a	quatic life with long lasting effects.
	istence and degradabi ata available	lity	
	ccumulative potential ata available		
••	r adverse effects ata available		
<u>Com</u>	ponents:		
	per: tional ecological mation	unprofessiona	ntal hazard cannot be excluded in the event of I handling or disposal. quatic life with long lasting effects.
	tional ecological mation	unprofessiona	ntal hazard cannot be excluded in the event of I handling or disposal. quatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal	methods
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Waste from residues	 The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	 In accordance with local and national regulations. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

Domestic regulation

49 CFR

Not regulated as a dangerous good

International Regulations





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IATA-DGR

UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Copper metal powder)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous Dangerous Goods
Packing instruction (cargo aircraft)	:	964
Packing instruction (passenger aircraft)	:	964
IMDG-Code		
UN number	•	UN 3082
Proper shipping name	÷	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(Copper metal powder)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes
Remarks	:	For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ
		(lbs)
Copper	7440-50-8	5000
Zinc	7440-66-6	1000
Sodium hydroxide (Na(OH))	1310-73-2	1000

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.



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SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Acute toxicity (any route o Serious eye damage or ey		
SARA 313	:	The following components established by SARA Title	• •	orting levels
		Copper	7440-50-8	>= 30 - < 50 %
		Zinc	7440-66-6	>= 1 - < 5 %
		2-Propanol	67-63-0	>= 1 - < 5 %

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

2-Propanol	67-63-0	>= 1 - < 5 %
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Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

	Sodium hydroxide (Na(OH))	1310-73-2	%
The follow	wing Hazardous Chemicals	are listed under the U.S. Cle	anWater Act, Section 311, Table
117.3:	-		
	Sodium hydroxide (Na(OH))	1310-73-2	%
This prod	uct contains the following t	oxic pollutants listed under th	e U.S. Clean Water Act Section 307
·	Copper	7440-50-8	31.2375 %
	Zinc	7440-66-6	3.15 %
This prod	uct contains the following p	priority pollutants related to th	e U.S. Clean Water Act:
	Copper	7440-50-8	31.2375 %

Zinc 7440-66-6 3.15 %



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US S	tate Regulations		
Mass	achusetts Right To Copper	Know	7440-50-8
	Zinc		7440-66-6
	2-Propanol		67-63-0
Penn	sylvania Right To K	now	
	Water		7732-18-5
	Copper		7440-50-8
		r Stoff oder gefährliches Gem sierten System (GHS).	isch gemäß dem Not Assigned
	Styrene/acrylic of		Not Assigned
	Zinc		7440-66-6
	2-Propanol		67-63-0
	Sodium hydroxi	de (Na(OH))	1310-73-2
	Aluminum		7429-90-5
	which is/are k	nown to the State of Californi	o chemicals including lead and cadmium a to cause cancer and birth defects or o o to www.P65Warnings.ca.gov.
Califo	ornia List of Hazardo	ous Substances	
	Copper		7440-50-8
	Zinc		7440-66-6
	2-Propanol		67-63-0
Califo	ornia Permissible E	posure Limits for Chemical	Contaminants
	Copper		7440-50-8
	Zinc		7440-66-6
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2-Propanol

67-63-0

The ingredients of this product are reported in the following inventories:		
DSL	:	This product contains one or several components listed in the
		Canadian NDSL.
TSCA	:	All substances listed as active on the TSCA inventory
EINECS	:	On the inventory, or in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements: Zinc 7440-66-6

SECTION 16. OTHER INFORMATION

Full text of other abbreviation	ns	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA PO	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1
		Limits for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3
		Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour
		workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded
		at any time during a workday
OSHA P0/TWA	:	8-hour time weighted average
OSHA P0/STEL	:	Short-term exposure limit
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average
AIIC - Australian Inventory o	f Ir	ndustrial Chemicals; ASTM - American Society for the Testing of
Materials; bw - Body weight;	CE	RCLA - Comprehensive Environmental Response, Compensation,

Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule;



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ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals: RQ - Reportable Quantity: SADT - Self-Accelerating Decomposition Temperature: SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA -Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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