SAFETY DATA SHEET
according to the Hazardous Products Regulations

ORGANON

Tapinarof Formulation

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SECTION 1. IDENTIFICATION

Product name : Tapinarof Formulation
Other means of identification : Presciption Medicine

Manufacturer or supplier's details

Company name of supplier : Organon & Co.
Address : 30 Hudson Street, 33rd floor
Jersey City, New Jersey 07302

Telephone : +1 551-430-6000 US
Emergency telephone : For 24/7 emergency response advice, call CHEMTREC at +1 703-741-5970 (Regional). Global 24/7: +1-800-424-9300 (United States, English only).

Recommended use of the chemical and restrictions on use

Recommended use : Pharmaceutical

Restrictions on use : To be dispensed by or on the prescription of physician.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Reproductive toxicity : Category 2

Specific target organ toxicity - repeated exposure : Category 2 (Immune system)

GHS label elements

Hazard pictograms :

Signal Word : Warning

Hazard Statements : H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs (Immune system) through prolonged or repeated exposure.

Precautionary Statements :

Prevention:

P201 Obtain special instructions before use.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Propylene glycol	Propylene glycol	57-55-6	>= 10 - < 15
2-(2-ethoxyethoxy)ethanol	Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	>= 2 - < 3
Tapinarof	Tapinarof	79338-84-4	1

SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : If inhaled, remove to fresh air.
Get medical attention.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.
Remove contaminated clothing and shoes.
Call a physician if irritation develops or persists.
Wash clothing before reuse.

In case of eye contact : If in eyes, rinse well with water.
Get medical attention if irritation develops and persists.

If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention.
Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed : Reference Section 11: Experience with human exposure.
See current prescribing information.

Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).

Notes to physician : None known.
Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion products	:	Carbon oxides Nitrogen oxides (NOx) Sodium oxides
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Collect as much of the spill as possible with a suitable absorbent material. Shovel into suitable container for disposal. Clean contaminated surface thoroughly. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Keep container closed when not in use. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Tapinarof	79338-84-4	TWA	60 µg/m3 (OEB 3)	Internal
		Wipe limit	6000 µg/100 cm2	Internal
Propylene glycol	57-55-6	TWA (Vapour and aerosols)	50 ppm 155 mg/m3	CA ON OEL
		TWA (aerosol)	10 mg/m3	CA ON OEL
2-(2-ethoxyethoxy)ethanol	111-90-0	TWA	30 ppm 165 mg/m3	CA ON OEL

Engineering measures : Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., vacuum conveying from a closed system, packout head with inflatable seal from stationary container, ventilated enclosure, etc.).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.
Essentially no open handling permitted.
Use closed processing systems or containment technologies.

Personal protective equipment

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
No personal respiratory protective equipment normally required.

Hand protection
Material : Chemical-resistant gloves

Eye protection : Wear safety glasses with side shields or goggles.
If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.
Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.

Skin and body protection : Work uniform or laboratory coat.
Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.
Use appropriate degowning techniques to remove potentially contaminated clothing.

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.
The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	cream
Color	:	White to light brown
Odor	:	No data available
Odor Threshold	:	No data available
pH	:	No data available

Melting point/ range	:	not determined
	:	not determined
Flash point	:	not determined
Evaporation rate	:	not determined
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapor pressure	:	not determined
Relative vapor density	:	Not applicable
Relative density	:	No data available
Density	:	not determined
Solubility(ies)		
Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	log Pow: 5.03 - 5.06 pH: 5 - 9 Active ingredient
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	20,000 - 100,000 mPa.s
Viscosity, kinematic	:	Very viscous
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Molecular weight	:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	None reasonably foreseeable.
Conditions to avoid	:	Heat.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

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

Components:

Propylene glycol:

Acute oral toxicity	:	LD50 (Rat): 22,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 44.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity

2-(2-ethoxyethoxy)ethanol:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.24 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 (Rabbit): 9,143 mg/kg

Tapinarof:

Acute oral toxicity	:	(Pig): > 25 mg/kg Remarks: Not classified
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	(Rat): > 480 mg/kg Remarks: Not classified (Rabbit): > 640 mg/kg Remarks: Not classified

Skin corrosion/irritation

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

Components:

Propylene glycol:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

2-(2-ethoxyethoxy)ethanol:

Species	:	Rabbit
Result	:	No skin irritation

Tapinarof:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Serious eye damage/eye irritation

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

Components:

Propylene glycol:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

2-(2-ethoxyethoxy)ethanol:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

Tapinarof:

Species	:	Rabbit
Result	:	No eye irritation
Assessment	:	Not classified
Method	:	OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization

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

Respiratory sensitization

Not classified due to lack of data.

Components:

Propylene glycol:

Test Type	:	Maximization Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Result	:	negative

Tapinarof:

Test Type	:	Skin sensitization
Routes of exposure	:	Dermal
Species	:	Guinea pig
Method	:	Buehler Test
Result	:	negative

Test Type	:	Skin sensitization
Routes of exposure	:	Dermal
Species	:	Mouse
Method	:	Local lymph node assay (LLNA)
Result	:	negative

Test Type	:	Respiratory sensitization
Remarks	:	No data available

Germ cell mutagenicity

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

Components:

Propylene glycol:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
Genotoxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative

2-(2-ethoxyethoxy)ethanol:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo	:	Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo

Species: Rat
Application Route: Ingestion
Result: negative

Tapinarof:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay
Test system: Salmonella typhimurium
Result: negative

Test Type: Bacterial reverse mutation assay
Test system: Escherichia coli
Result: negative

Test Type: Mouse Lymphoma
Test system: L5178Y Lymphoma cells
Result: negative

Test Type: Chromosomal aberration
Test system: Chinese hamster ovary cells
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Rat
Cell type: Bone marrow
Application Route: Subcutaneous
Exposure time: 28 days
Result: negative

Test Type: Micronucleus test
Species: Mouse
Cell type: Bone marrow
Application Route: Intraperitoneal
Result: negative

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

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

Components:

Propylene glycol:

Species : Rat
Application Route : Ingestion
Exposure time : 2 Years
Result : negative

Tapinarof:

Species : Rat

Application Route	:	Subcutaneous
Exposure time	:	83 weeks
Frequency of Treatment	:	daily
NOAEL	:	1 mg/kg bw/day
Result	:	negative
Symptoms	:	Not observed

Species	:	Mouse
Application Route	:	Dermal
Exposure time	:	102 weeks
Frequency of Treatment	:	daily
NOAEL	:	3 %
Result	:	negative
Symptoms	:	Not observed

Carcinogenicity - Assessment	:	Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Components:

Propylene glycol:

Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Mouse Application Route: Ingestion Result: negative
Effects on fetal development	:	Test Type: Embryo-fetal development Species: Mouse Application Route: Ingestion Result: negative

2-(2-ethoxyethoxy)ethanol:

Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Mouse Application Route: Ingestion Result: negative
Effects on fetal development	:	Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative

Tapinarof:

Effects on fertility	:	Test Type: Fertility/early embryonic development Species: Rat, female Application Route: Subcutaneous Fertility: NOAEL: 30 mg/kg body weight Early Embryonic Development: NOAEL: 30 mg/kg body

weight
Result: No significant adverse effects were reported

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: Subcutaneous
Embryo-fetal toxicity.: NOAEL: 34 mg/kg body weight
Symptoms: Reduced maternal body weight gain., No fetal mortality., Variations of the musculoskeletal system

Test Type: Embryo-fetal development
Species: Rabbit
Application Route: Subcutaneous
Embryo-fetal toxicity.: NOAEL: 1 mg/kg body weight
Symptoms: Variations of the musculoskeletal system, Postimplantation loss.

Test Type: Embryo-fetal development
Species: Rabbit
Application Route: Subcutaneous
Embryo-fetal toxicity.: NOAEL: 3 mg/kg body weight
Symptoms: No adverse effects.

Test Type: One-generation reproduction toxicity study
Species: Rat
Application Route: Subcutaneous
General Toxicity Maternal: LOAEL: 30 mg/kg body weight
Developmental Toxicity: NOAEL: 1 mg/kg body weight
Symptoms: Injection site reactions, hair loss, decreased thymus cellularity, Reduced maternal body weight gain., Reduced maternal food consumption.

Test Type: One-generation reproduction toxicity study
Species: Juvenile rat
Application Route: Subcutaneous
Developmental Toxicity: NOAEL: 1 - 1.5 mg/kg body weight
Symptoms: hair loss

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

STOT-single exposure

Not classified due to lack of data.

STOT-repeated exposure

May cause damage to organs (Immune system) through prolonged or repeated exposure.

Components:

Tapinarof:

Target Organs : Immune system
Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.

Repeated dose toxicity

Components:

Propylene glycol:

Species	:	Rat, male
NOAEL	:	>= 1,700 mg/kg
Application Route	:	Ingestion
Exposure time	:	2 yr

2-(2-ethoxyethoxy)ethanol:

Species	:	Dog
NOAEL	:	1,000 mg/kg
Application Route	:	Ingestion
Exposure time	:	13 Weeks

Species	:	Rat
NOAEL	:	>= 1.06 mg/l
Application Route	:	inhalation (dust/mist/fume)
Exposure time	:	28 Days

Species	:	Rabbit
NOAEL	:	>= 1,000 mg/kg
Application Route	:	Skin contact
Exposure time	:	28 Days

Tapinarof:

Species	:	Pig
NOAEL	:	60 mg/kg
Application Route	:	Dermal
Exposure time	:	39 Weeks
Number of exposures	:	Daily

Species	:	Rat
NOAEL	:	1 mg/kg
LOAEL	:	>= 6 mg/kg
Application Route	:	Subcutaneous
Exposure time	:	26 Weeks
Number of exposures	:	Daily
Target Organs	:	Immune system
Symptoms	:	Sarcoma at the injection site, Thymus changes, Changes in immune cell parameters

Species	:	Rat
NOAEL	:	> 3 mg/kg
Application Route	:	Dermal
Exposure time	:	13 Weeks
Number of exposures	:	Daily

Aspiration toxicity

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

Product:

Not applicable

Experience with human exposure

Product:

Skin contact : Symptoms: folliculitis, nasopharyngitis, contact dermatitis, headache, pruritis, influenza, upper respiratory tract infection, lower respiratory tract infection, Asthma, Vomiting, ear infection, pain in extremity, abdominal pain

Other health hazards

Product:

Does not have endocrine disrupting properties.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Propylene glycol:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 18,340 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Skeletonema costatum (marine diatom)): 19,300 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Ceriodaphnia dubia (water flea)): 13,020 mg/l Exposure time: 7 d
Toxicity to microorganisms	:	NOEC (Pseudomonas putida): > 20,000 mg/l Exposure time: 18 h

2-(2-ethoxyethoxy)ethanol:

Toxicity to fish	:	LC50 (Ictalurus catus (catfish)): 6,010 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1,982 mg/l Exposure time: 48 h

Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials NOEC (Selenastrum capricornutum (green algae)): >= 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to microorganisms	:	IC50: > 5,000 mg/l Exposure time: 16 h

Tapinarof:

Toxicity to fish	:	EC50 (Fish): 0.1 - 1 mg/l Exposure time: 96 h Method: QSAR
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia): 0.49 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (algae): 0.1 - 1 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Crustaceans): 0.36 mg/l

Persistence and degradability

Components:

Propylene glycol:

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 98.3 % Exposure time: 28 d Method: OECD Test Guideline 301F

2-(2-ethoxyethoxy)ethanol:

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 100 % Exposure time: 16 d Method: OECD Test Guideline 301B

Tapinarof:

Biodegradability	:	Result: Not readily biodegradable. Biodegradation: 42 % Method: OECD Test Guideline 301C

Remarks: Ultimate aerobic biodegradation

Bioaccumulative potential

Components:

Propylene glycol:

Partition coefficient: n-octanol/water : log Pow: -1.07
Method: Regulation (EC) No. 440/2008, Annex, A.8

2-(2-ethoxyethoxy)ethanol:

Partition coefficient: n-octanol/water : log Pow: -0.54

Tapinarof:

Bioaccumulation : Remarks: Accumulation in aquatic organisms is expected. Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.

Partition coefficient: n-octanol/water : log Pow: 5.04

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.
Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG
Not regulated as a dangerous good

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

TDG
Not regulated as a dangerous good

Special precautions for user
Not applicable

SECTION 15. REGULATORY INFORMATION

NPRI Components : 2-(2-ethoxyethoxy)ethanol
2,6-di-tert-butyl-p-cresol

The ingredients of this product are reported in the following inventories:

AICS	:	All ingredients listed or exempt.
CA. DSL	:	All ingredients listed or exempt.
IECSC	:	All ingredients listed or exempt.
EINECS	:	All ingredients listed or exempt.
TSCA	:	All ingredients listed or exempt.
ENCS	:	All ingredients listed or exempt.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; 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; 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 Organization 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; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. -

Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

Revision Date	:	10/21/2025
Date format	:	mm/dd/yyyy

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