

SAFETY DATA SHEET

according to US Regulation 29 CFR 1910.1200 and the Canadian HPA

SECTION 1. IDENTIFICATION

Commercial Product Name : GEOGARD 221
Product name : Geogard™ 221

Recommended use of the chemical and restrictions on use

Recommended use : Conservation agent (preservative) for cosmetics

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 4
Eye irritation : Category 2A

GHS label elements

Hazard pictograms



Signal word

: Warning

Hazard statements

: H302 + H332 Harmful if swallowed or if inhaled.
H319 Causes serious eye irritation.

Precautionary statements

: **Prevention:**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

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.

Storage:

P402 + P404 Store in a dry place. Store in a closed container.

P410 + P403 Protect from sunlight. Store in a well-ventilated place.

Disposal:

P501 Dispose of contents/container in accordance with local regulation.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name / Synonyms	CAS-No.	Concentration (% w/w)
Benzyl alcohol	100-51-6	>= 70 - < 90
3-Acetyl-6-methyl-2H-pyran-2,4(3H)-dione	520-45-6; [771-03-9]	>= 5 - < 10

SECTION 4. FIRST AID MEASURES

- If inhaled : Move to fresh air.
Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.
If breathing is irregular or stopped, administer artificial respiration.
Keep respiratory tract clear.
- In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.
If on clothes, remove clothes.
In the case of skin irritation or allergic reactions see a physician.
- In case of eye contact : Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes.
Call a physician immediately.
Remove contact lenses.
Keep eye wide open while rinsing.
Protect unharmed eye.

- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : No information available.
- Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Alcohol-resistant foam
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Heating or fire can release toxic gas.
- Further information : Use water spray to cool unopened containers.
- Special protective equipment for firefighters : 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.
Ensure adequate ventilation.
Use respirator when performing operations involving potential exposure to vapour of the product.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed.
 Keep in a well-ventilated place.
 Electrical installations / working materials must comply with the technological safety standards.
 To maintain product quality, do not store in heat or direct sunlight.

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Benzyl alcohol	100-51-6	TWA	10 ppm 44.20 mg/m ³	WEEL

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
 Respirator with ABEK filter.
 Respirator with a vapour filter (EN 141)

Hand protection

Material : Nitrile rubber

Remarks : Wear protective gloves. Break through time : > 480 min

Eye protection : Safety glasses with side-shields conforming to EN166
 Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Avoid contact with skin, eyes and clothing.
 When using do not eat or drink.
 When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : yellow

Odour : no data available

Odour Threshold	: no data available
pH	: no data available
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: > 205 °F / 96 °C
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Flammability (liquids)	: no data available
Self-ignition	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Relative density	: no data available
Density	: no data available
Bulk density	: no data available
Water solubility	: slightly soluble
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Decomposition temperature	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: no data available
Minimum ignition energy	: no data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: Stable under recommended storage conditions.

Disclaimer: As the users' condition of work is not known, the information contained in this Material Safety Data Sheet is accurate to the best of our knowledge and is based on the national community regulations. The product must not be employed for uses other than those specified without having previously obtained written handling instructions. Users are responsible for taking all necessary to comply with the requirements of the law and local regulations. The information contained in this sheet should be regarded as the description of the safety requirements relating to our products and not as a guarantee of its properties.

Possibility of hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	:	Heat
Incompatible materials	:	Strong acids and strong bases Oxidizing agents
Hazardous decomposition products	:	No decomposition if used as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity : Acute toxicity estimate: 1,605 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 1.67 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Skin corrosion/irritation

Remarks: no data available

Serious eye damage/eye irritation

Remarks: no data available

Respiratory or skin sensitisation

Remarks: no data available

Germ cell mutagenicity

Genotoxicity in vitro : Remarks: no data available

Carcinogenicity

Remarks: no data available

IARC

No component 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 component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity

Effects on fertility : Remarks: no data available

STOT - single exposure

Remarks: no data available

STOT - repeated exposure

Remarks: no data available

Aspiration toxicity

No aspiration toxicity classification

Further information

Remarks: no data available

The following toxicological data refer to:

3-Acetyl-6-methyl-2H-pyran-2,4(3H)-dione(CAS-No.: 520-45-6)

Acute toxicity

Acute oral toxicity : LD50 (Rat): 1,480 mg/kg
Method: OECD Test Guideline 401
Acute dermal toxicity : LD50 (Rabbit): 3,000 - 5,000 mg/kg

Skin corrosion/irritation

Species: Rabbit
Exposure time: 4 h
Method: DOT
Result: No skin irritation

Serious eye damage/eye irritation

Species: Chicken eye
Result: No eye irritation
Exposure time: 4 h
Assessment: No eye irritation
Method: OECD Test Guideline 438
GLP: yes

Respiratory or skin sensitisation

Test Type: Local Lymph Node Assay
Species: Mouse
Method: OECD Test Guideline 429
Result: not sensitizing
GLP: yes

Germ cell mutagenicity

Genotoxicity in vitro : Test Type: Ames test
Species: Salmonella typhimurium

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Result: negative

- : Test Type: Chromosome aberration test in vitro
Species: Human lymphocytes
Method: OECD Test Guideline 473
Result: negative
GLP: yes
Test substance: Information given is based on data obtained from similar substances.
- : Test Type: gene mutation test
Species: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 490
Result: negative
GLP: yes
Test substance: Information given is based on data obtained from similar substances.

Reproductive toxicity

Effects on fertility

- : Test Type: Pre-/postnatal development
Species: Rat
Application Route: Oral
General Toxicity - Parent: LOAEL: 100 mg/kg body weight
General Toxicity F1: NOAEL: 100 mg/kg body weight

STOT - single exposure

Remarks: no data available

Repeated dose toxicity

Species: Rat, male and female

NOAEL: 78 mg/kg

Exposure time: 2 y

Species: Rat, male

NOAEL: > 100 mg/kg

Exposure time: 34 d

Number of exposures: 5 days/week

Further information

Remarks: no data available

The following toxicological data refer to:

Benzyl alcohol(CAS-No.: 100-51-6)

Acute toxicity

Acute oral toxicity : LD50 (Rat, male): 1,620 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 4.178 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

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Acute dermal toxicity : LD50 (Rabbit): 2,000 mg/kg
Assessment: The component/mixture is minimally toxic after single contact with skin.
Remarks: Literary reference

Skin corrosion/irritation

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: No skin irritation

Serious eye damage/eye irritation

Species: Rabbit
Result: Irritation to eyes, reversing after 7 to 21 days
Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Test Type: Magnusson & Kligman
Species: Guinea pig
Result: not sensitizing
Remarks: Literary reference

Germ cell mutagenicity

Genotoxicity in vitro : Test Type: Ames test
Result: negative

: Test Type: gene mutation test
Species: mouse lymphoma cells
Result: equivocal

: Test Type: Chromosome aberration test in vitro
Result: positive

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse
Application Route: ip
Dose: 50 -100-200 mg/kg
Result: negative

Reproductive toxicity

Species: Mouse, female
Application Route: Oral
Dose: 10d
Fertility: NOAEL: 500 mg/kg food

Further information

Remarks: May cause sensitisation of susceptible persons by skin contact.

Remarks: Dermal absorption possible

Remarks: High concentration of vapours may induce unconsciousness.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish : Remarks: no data available

Persistence and degradability

Biodegradability : Remarks: no data available

Bioaccumulative potential

Bioaccumulation : Remarks: no data available

Components:

Benzyl alcohol:

Partition coefficient: n-octanol/water : log Pow: 1.05 (20 °C)

3-Acetyl-6-methyl-2H-pyran-2,4(3H)-dione:

Partition coefficient: n-octanol/water : log Pow: 0.778
Method: QSAR

Mobility in soil

Distribution among environmental compartments : Remarks: no data available

Other adverse effects

Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)
Remarks: 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).

Additional ecological information : no data available

The following ecotoxicological data refer to:

3-Acetyl-6-methyl-2H-pyran-2,4(3H)-dione(CAS-No.: 520-45-6)

Ecotoxicity

Toxicity to fish : NOEC (Cyprinus carpio (Carp)): 218 - 415 mg/l
Exposure time: 72 h
Analytical monitoring: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test substance: Information given is based on data obtained from similar substances.
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 32.1 mg/l
Exposure time: 72 h

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Test Type: Growth inhibition
Test substance: Information given is based on data obtained from similar substances.
Method: OECD Test Guideline 201
GLP: yes

Toxicity to microorganisms : NOEC (activated sludge): 38 mg/l
Exposure time: 14 d
Test substance: Information given is based on data obtained from similar substances.
GLP: yes

Persistence and degradability

Biodegradability : Test Type: OECD Coupled Units
Concentration: 12 mg/l
Result: biologically well degradable
Biodegradation: 99 %
Method: OECD Test Guideline 303A
GLP: no

Test Type: Zahn-Wellens Test
Concentration: 400 mg/l
Result: biologically well degradable
Biodegradation: 96 %
Exposure time: 14 d
Method: OECD Test Guideline 302B

Test Type: Closed Bottle test
Concentration: 2 mg/l
Result: Readily biodegradable.
Biodegradation: 81 % (Theoretical oxygen demand)
Exposure time: 30 d
Method: OECD Test Guideline 301D
GLP: no

Bioaccumulative potential

Bioaccumulation : Remarks: no data available

Mobility in soil

Distribution among environmental compartments : Remarks: no data available

Other adverse effects

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

The following ecotoxicological data refer to:

Benzyl alcohol(CAS-No.: 100-51-6)

Ecotoxicity

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 646 mg/l
Exposure time: 48 h
Method: DIN 38412 Part 15

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	LC50 (Pimephales promelas (fathead minnow)): 460 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	: IC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	NOEC (Pseudokirchneriella subcapitata (green algae)): 310 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	ErC50 (Pseudokirchneriella subcapitata (green algae)): 700 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 51 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
Toxicity to microorganisms	: EC50 (Pseudomonas putida): 658 mg/l Exposure time: 16 h Remarks: Literary reference
	: EC50 (Photobacterium phosphoreum): 71 mg/l Exposure time: 30 min Remarks: Literary reference

Persistence and degradability

Biodegradability	: Result: Readily biodegradable. Biodegradation: 95 - 97 % Exposure time: 21 d Method: OECD Test Guideline 301A
	Result: Readily biodegradable. Biodegradation: 92 - 96 % Exposure time: 14 d Method: OECD Test Guideline 301C

Bioaccumulative potential

Bioaccumulation	: Bioconcentration factor (BCF): 4 Remarks: Literary reference Does not bioaccumulate.
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Mobility in soil

no data available

Other adverse effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- Waste from residues : Dispose of contents/container in accordance with local regulation.
Contact waste disposal services.
Do not dispose of waste into sewer.
- Contaminated packaging : Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

DOT	Not dangerous goods
UN number	: Not applicable
Proper shipping name	: Not applicable
Transport hazard class	: Not applicable
Packing group	: Not applicable
	:
TDG	Not dangerous goods
UN number	: Not applicable
Proper shipping name	: Not applicable
Transport hazard class	: Not applicable
Packing group	: Not applicable
	:
IATA	Not dangerous goods
UN number	: Not applicable
Proper shipping name	: Not applicable
Transport hazard class	: Not applicable
Packing group	: Not applicable
	:
IMDG	Not dangerous goods
UN number	: Not applicable
Proper shipping name	: Not applicable
Transport hazard class	: Not applicable
Packing group	: Not applicable
	:
ADR	Not dangerous goods
UN number	: Not applicable
Proper shipping name	: Not applicable
Transport hazard class	: Not applicable
Packing group	: Not applicable

RID Not dangerous goods

UN number : Not applicable
 Proper shipping name : Not applicable
 Transport hazard class : Not applicable
 Packing group : Not applicable

Special precautions for user : none

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Hydroquinone	123-31-9	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Hydroquinone	123-31-9	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

Components	CAS-No.	Concentration
Hydroquinone	123-31-9	>= 0.001 - < 0.01 %

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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 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Components	CAS-No.	Concentration
Benzyl alcohol	100-51-6	>= 70 - < 90 %
Hydroquinone	123-31-9	>= 0.001 - < 0.01 %

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Components	CAS-No.
Benzyl alcohol	100-51-6
Hydroquinone	123-31-9

Pennsylvania Right To Know

Components	CAS-No.
Benzyl alcohol	100-51-6
Water	7732-18-5
3-Acetyl-6-methyl-2H-pyran-2,4(3H)-dione	520-45-6 [771-03-9]

New Jersey Right To Know

Components	CAS-No.
Benzyl alcohol	100-51-6
Water	7732-18-5
3-Acetyl-6-methyl-2H-pyran-2,4(3H)-dione	520-45-6 [771-03-9]

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Canadian lists

NPRI

Components	CAS-No.
Hydroquinone	123-31-9

The product components have the following inventory status:

All components of this product are listed on the EPA TSCA 8(b) inventory list.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

WEEL : US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of 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; 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; TECl - 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