

**SAFETY DATA SHEET**

Revision Date: 02/22/2018

Print Date: 3/8/2018

SDS Number: R0717500

Version: 1.3

Germall™ 115 preservative
™ Trademark, Ashland or its subsidiaries, registered
in various countries
828424

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**Product identifier**

Trade name : Germall™ 115
preservative
™ Trademark, Ashland or its subsidiaries, registered in
various countries

Substance name N,N''-methylenebis[N'-(3-(hydroxymethyl)-2,5-
dioxoimidazolidin-4-yl]urea]

Substance No.
EC-No. 254-372-6

CAS-No. 39236-46-9

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

Recommended use : Preservative
Personal care

Details of the supplier of the safety data sheet

Ashland
P.O. Box 2219
Columbus, OH 43216
United States of America (USA)
+1-614-790-3333

EHSProductSafety@ashland.com

Emergency telephone number

1-800-ASHLAND (1-800-274-5263)

Regulatory Information Number

1-800-325-3751

Product Information

+1-614-790-3333

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Combustible Dust :

Skin sensitization : Category 1

GHS label elements

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Hazard pictograms

:



Signal Word

: Warning

Hazard Statements

: May form combustible dust concentrations in air.
May cause an allergic skin reaction.

Precautionary Statements

Prevention:
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
Keep dust/air mixtures away from ignition sources.
Response:
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Substance

Chemical nature

: organic

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
IMIDAZOLIDINYL UREA	39236-46-9	Comb Dust Skin Sens. 1; H317	97.00



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SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
 Show this safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.
- If inhaled : If breathed in, move person into fresh air.
 If unconscious, place in recovery position and seek medical advice.
 If symptoms persist, call a physician.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.
 If on skin, rinse well with water.
 First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
 Wash contaminated clothing before re-use.
- In case of eye contact : Flush eyes with water as a precaution.
 Remove contact lenses.
 Protect unharmed eye.
 If eye irritation persists, consult a specialist.
- If swallowed : Do not give milk or alcoholic beverages.
 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 symptoms known or expected.
 May cause an allergic skin reaction.
- Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Water spray
 Foam
- Unsuitable extinguishing media : High volume water jet



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Specific hazards during firefighting : Organic dusts at sufficient concentration can form explosive mixtures in air.
 Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

Specific extinguishing methods :
 Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
 Avoid dust formation.
 Avoid breathing dust.
 Material can create slippery conditions.
 Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions : Prevent product from entering drains.
 Prevent further leakage or spillage if safe to do so.
 If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid dust formation.
 Do not breathe vapours/dust.
 Do not smoke.
 Ensure all equipment is electrically grounded and bonded

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before beginning transfer operations.

The material can accumulate static charge and can therefore cause electrical ignition of flammable atmospheres.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Container hazardous when empty.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national regulations.

Maintain good housekeeping. Do not permit dust layers to accumulate, for example, on floors, ledges, and equipment, in order to avoid any potential for dust explosion hazards.

For further guidance on prevention of dust explosions, refer to National Fire Protection Association (NFPA) 654: "Standard for the Prevention of Fire and Dust Explosions, from the Manufacturing, Processing and Handling of Combustible Particulate Solids".

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
No smoking.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

Components	CAS-No.
IMIDAZOLIDINYL UREA	39236-46-9

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.
Provide appropriate exhaust ventilation at places where dust



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is formed.

Personal protective equipment

Hand protection

Material : butyl-rubber
 nitrile rubber

Remarks : Gloves

The suitability for a specific workplace should be discussed
 with the producers of the protective gloves.

Eye protection : Safety glasses

Skin and body protection : Wear resistant gloves (consult your safety equipment
 supplier).
 Wear as appropriate:
 Safety shoes
 Dust impervious protective suit
 Choose body protection according to the amount and
 concentration of the dangerous substance at the work place.
 Discard gloves that show tears, pinholes, or signs of wear.

Hygiene measures : Avoid breathing dust.
 Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Physical state : solid (20 °C, 101.3 kPa)

Colour : white

Odour : odourless

Odour Threshold : No data available

pH : 6.0 - 7.5
 Concentration: 1 %
 (as aqueous solution)

: 464.9 °F / 240.5 °C
 (1,013 hPa)



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Melting point/range

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : < 0.0000001 Pa (25 °C)

Relative vapour density : No data available

Relative density : No data available

Density : 1.24 g/cm³ (20 °C)

Solubility(ies)

Water solubility : 1,000 g/l (20 °C)

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : log Pow: 0.9 (20 °C)

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

Molecular weight : 388.29 g/mol

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SECTION 10. STABILITY AND REACTIVITY

- Reactivity : No decomposition if stored and applied as directed.
- Chemical stability : Stable under recommended storage conditions.
- Possibility of hazardous reactions : Dust may form explosive mixture in air.
- Conditions to avoid : Keep away from heat, flame, sparks and other ignition sources.
- Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

- Information on likely routes of exposure : Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity

Not classified based on available information.

Product:

- Acute oral toxicity : LD50 (Rat): 5,200 mg/kg
- Acute inhalation toxicity : LC50 (Rat): > 5.5 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist
Assessment: Not classified as acutely toxic by inhalation under GHS.
- Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Components:**IMIDAZOLIDINYL UREA:**

- Acute oral toxicity : LD50 (Rat): 5,200 mg/kg
- Acute inhalation toxicity : LC50 (Rat): > 5.5 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist
Assessment: Not classified as acutely toxic by inhalation under GHS.

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Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: No skin irritation

Remarks: May cause skin irritation in susceptible persons.

Components:

IMIDAZOLIDINYL UREA:

Result: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Result: No eye irritation

Remarks: Unlikely to cause eye irritation or injury., Product dust may be irritating to eyes, skin and respiratory system.

Components:

IMIDAZOLIDINYL UREA:

Result: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Product:

Test Type: Local lymph node assay

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 442A

Assessment: May cause sensitisation by skin contact.

Method: Maximisation Test

Components:

IMIDAZOLIDINYL UREA:

Test Type: Local lymph node assay

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 442A

Assessment: May cause sensitisation by skin contact.



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Method: Maximisation Test

Germ cell mutagenicity

Not classified based on available information.

Product:

Genotoxicity in vitro : Test Type: Ames test
 Metabolic activation: with and without metabolic activation
 Result: negative
 GLP: yes

: Test Type: Chromosome aberration test in vitro
 Metabolic activation: with and without metabolic activation
 Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
 Test species: Mouse
 Application Route: Oral
 Result: negative

Test Type: in vivo assay
 Test species: Rat
 Application Route: Oral
 Result: negative

Components:

IMIDAZOLIDINYL UREA:

Genotoxicity in vitro : Test Type: Ames test
 Metabolic activation: with and without metabolic activation
 Result: negative
 GLP: yes

: Test Type: Chromosome aberration test in vitro
 Metabolic activation: with and without metabolic activation
 Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
 Test species: Mouse
 Application Route: Oral
 Result: negative

Test Type: in vivo assay
 Test species: Rat
 Application Route: Oral
 Result: negative

Carcinogenicity

Not classified based on available information.



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Reproductive toxicity

Not classified based on available information.

Product:

Effects on foetal
 development

: Test Type: Embryo-foetal development
 Species: Rat
 Application Route: Oral
 Dose: 300 milligram per kilogram
 Embryo-foetal toxicity: No observed adverse effect level F1:
 300
 Result: No teratogenic effects

Test Type: Embryo-foetal development
 Species: Mouse
 Application Route: Oral
 Dose: 300 milligram per kilogram
 Embryo-foetal toxicity: No observed adverse effect level F1:
 300
 Result: No teratogenic effects

Components:

IMIDAZOLIDINYL UREA:

Effects on foetal
 development

: Test Type: Embryo-foetal development
 Species: Rat
 Application Route: Oral
 Dose: 300 milligram per kilogram
 Embryo-foetal toxicity: No observed adverse effect level F1:
 300
 Result: No teratogenic effects

Test Type: Embryo-foetal development
 Species: Mouse
 Application Route: Oral
 Dose: 300 milligram per kilogram
 Embryo-foetal toxicity: No observed adverse effect level F1:
 300
 Result: No teratogenic effects

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Product:

Species: Rat
 NOAEL: 200 mg/kg
 LOAEL: 500 mg/kg
 Application Route: Oral



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Species: Rabbit
 NOAEL: 200 mg/kg
 Application Route: Dermal

Components:

IMIDAZOLIDINYL UREA:

Species: Rat
 NOAEL: 200 mg/kg
 LOAEL: 500 mg/kg
 Application Route: Oral

Species: Rabbit
 NOAEL: 200 mg/kg
 Application Route: Dermal

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Further information

Product:

Remarks: No data available

Carcinogenicity:

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.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Fish): 220 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 58 mg/l



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aquatic invertebrates

Exposure time: 48 h
 Test Type: Immobilization

Toxicity to algae

: ErC50 (green algae): 5.78 mg/l
 Exposure time: 72 h
 Test Type: Growth inhibition

Toxicity to bacteria

: EC50: 567 mg/l
 Exposure time: 3 h
 Method: OECD Test Guideline 209

: EC0: 200 mg/l
 Exposure time: 3 h
 Method: OECD Test Guideline 209

Ecotoxicology Assessment
 Acute aquatic toxicity

: Acute aquatic toxicity Category 2; Toxic to aquatic life.

Chronic aquatic toxicity

: Not classified based on available information.

Components:

IMIDAZOLIDINYL UREA:

Toxicity to fish

: LC50 (Fish): 220 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other
 aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 58 mg/l
 Exposure time: 48 h
 Test Type: Immobilization

Toxicity to algae

: ErC50 (green algae): 5.78 mg/l
 Exposure time: 72 h
 Test Type: Growth inhibition

Toxicity to bacteria

: EC50: 567 mg/l
 Exposure time: 3 h
 Method: OECD Test Guideline 209

EC0: 200 mg/l
 Exposure time: 3 h
 Method: OECD Test Guideline 209

Persistence and degradability

Product:

Biodegradability

: Test Type: aerobic
 Result: Not readily biodegradable.
 Biodegradation: > 40 %
 Exposure time: 28 d



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Method: OECD Test Guideline 301B

Remarks: Inherently biodegradable.

Result: Biodegradable

Biodegradation: 86.4 %

Exposure time: 28 d

Method: Simulation study

Remarks: Expected to be biodegradable

Stability in water : Degradation half life(DT50): 12 h (20.4 °C) pH: 7

Components:

IMIDAZOLIDINYL UREA:

Biodegradability

: aerobic

Result: Not readily biodegradable.

Biodegradation: > 40 %

Exposure time: 28 d

Method: OECD Test Guideline 301B

Remarks: Inherently biodegradable.

Result: Biodegradable

Biodegradation: 86.4 %

Exposure time: 28 d

Method: Simulation study

Remarks: Expected to be biodegradable

Stability in water : Degradation half life(DT50): 12 h (20.4 °C) pH: 7

No data available

Bioaccumulative potential

Product:

Bioaccumulation

: Remarks: The substance has low potential for bioaccumulation.

Components:

IMIDAZOLIDINYL UREA:

Bioaccumulation

: Remarks: The substance has low potential for bioaccumulation.

Partition coefficient: n-octanol/water : log Pow: 0.9 (20 °C)

Mobility in soil

Product:

Distribution among environmental compartments

: Adsorption/Soil

log Koc: < 2.07

Remarks: Mobile in soils

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Components:

IMIDAZOLIDINYL UREA:

Distribution among : Adsorption/Soil
environmental compartments log Koc: < 2.07
Remarks: Mobile in soils

Other adverse effects

No data available

Product:

Additional ecological : An environmental hazard cannot be excluded in the event of
information unprofessional handling or disposal., Toxic to aquatic life.

Components:**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

General advice : 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.

Dispose of in accordance with all applicable local, state and
federal regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste
handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION**International transport regulations****REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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MX_DG

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

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Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

TDG_INWT_C

Not dangerous goods

TDG_RAIL_C

Not dangerous goods

TDG_ROAD_C

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

CFR_RAIL_C

Not dangerous goods

U.S. DOT - ROAD

Not dangerous goods

***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant

no

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.



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SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : Combustible Dust
 Respiratory or skin sensitisation

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

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.

Pennsylvania Right To Know

IMIDAZOLIDINYL UREA 39236-46-9

WATER 7732-18-5

New Jersey Right To Know

IMIDAZOLIDINYL UREA 39236-46-9

WATER 7732-18-5

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.

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

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

ENCS : Personal care

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TSCA : On TSCA Inventory



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Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

Revision Date: 02/22/2018

NFPA:	HMIS III:						
<p>Flammability</p> <p>Health</p> <p>Instability</p> <p>Special hazard.</p>	<table border="1"> <tr> <td>HEALTH</td><td>2</td></tr> <tr> <td>FLAMMABILITY</td><td>0</td></tr> <tr> <td>PHYSICAL HAZARD</td><td>0</td></tr> </table> <p>0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p>	HEALTH	2	FLAMMABILITY	0	PHYSICAL HAZARD	0
HEALTH	2						
FLAMMABILITY	0						
PHYSICAL HAZARD	0						

NFPA Flammable and Combustible Liquids Classification

Not applicable

Full text of H-Statements

H317 May cause an allergic skin reaction.

Sources of key data used to compile the Safety Data Sheet

Ashland internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the

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information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; 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; 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