

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Opteon™ MZ Heat Transfer Fluid

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 2025/03/03  |
| 4.0     | 2025/04/24     | 2632386-00017 | Date of first issue: 2018/03/20 |

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Opteon™ MZ Heat Transfer Fluid

SDS-Identcode : 130000143003

#### Manufacturer or supplier's details

Company : The Chemours Chemical (Shanghai) Co., Ltd.

Address : 9F, SCG Parkside, 868 Yinghua Road, Pudong New District  
201204, Shanghai, China

Telephone : 86 400 8056 528

Emergency telephone number : 86 532 8388 9090

E-mail address : SDS.ChinaPSR@chemours.com

Telefax : 86 21 2612 0862

#### Recommended use of the chemical and restrictions on use

Recommended use : Heat transfer fluids

Restrictions on use : Consumer use

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

|            |                     |
|------------|---------------------|
| Appearance | : liquid            |
| Colour     | : clear, colourless |
| Odour      | : odourless         |

Harmful to aquatic life.

#### GHS Classification

Short-term (acute) aquatic hazard : Category 3

#### GHS label elements

Hazard pictograms : None

Signal word : None

Hazard statements : H402 Harmful to aquatic life.

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Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Physical and chemical hazards

Not classified based on available information.

### Health hazards

Not classified based on available information.

### Environmental hazards

Harmful to aquatic life.

### Other hazards which do not result in classification

Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing.

Misuse or intentional inhalation abuse may cause death without warning symptoms, due to cardiac effects.

Rapid evaporation of the product may cause frostbite.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance  
Substance name : (Z)-1,1,1,4,4,4-Hexafluoro-2-butene  
CAS-No. : 692-49-9

### Components

| Chemical name                        | CAS-No.  | Concentration (% w/w) |
|--------------------------------------|----------|-----------------------|
| (Z)-1,1,1,4,4,4-Hexafluoro-2-butene# | 692-49-9 | >= 99.5 -<= 100       |

# Voluntarily-disclosed substance

## 4. FIRST AID MEASURES

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

In case of skin contact : Wash with water and soap as a precaution.  
Get medical attention if symptoms occur.

In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.

If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.

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Rinse mouth thoroughly with water.

|                                                             |                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Most important symptoms and effects, both acute and delayed | : May cause cardiac arrhythmia.<br>Other symptoms potentially related to misuse or inhalation abuse are<br>Cardiac sensitisation<br>Anaesthetic effects<br>Light-headedness<br>Dizziness<br>confusion<br>Lack of coordination<br>Drowsiness<br>Unconsciousness |
| Protection of first-aiders                                  | : No special precautions are necessary for first aid responders.                                                                                                                                                                                               |
| Notes to physician                                          | : Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, that may be used in situations of emergency life support should be used with special caution.                                                                  |

### 5. FIREFIGHTING MEASURES

|                                               |                                                                                                                                                                                                                                                   |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                  | : Not applicable<br>Will not burn                                                                                                                                                                                                                 |
| Unsuitable extinguishing media                | : Not applicable<br>Will not burn                                                                                                                                                                                                                 |
| Specific hazards during fire-fighting         | : Exposure to combustion products may be a hazard to health.                                                                                                                                                                                      |
| Hazardous combustion products                 | : Hydrogen fluoride<br>carbonyl fluoride<br>Carbon oxides                                                                                                                                                                                         |
| Specific extinguishing methods                | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do so.<br>Evacuate area. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary.<br>Use personal protective equipment.                                                                                                                                    |

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### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : 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.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
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 : Soak up with inert absorbent material.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
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.

### 7. HANDLING AND STORAGE

#### Handling

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Valve protection caps and valve outlet threaded plugs must remain in place unless container is secured with valve outlet piped to use point.  
Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder.  
Use a pressure reducing regulator when connecting cylinder to lower pressure (<3000 psig) piping or systems.  
Never attempt to lift cylinder by its cap.  
Do not drag, slide or roll cylinders.  
Use a suitable hand truck for cylinder movement.

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Take care to prevent spills, waste and minimize release to the environment.

Avoidance of contact : None.

### Storage

Conditions for safe storage : Cylinders should be stored upright and firmly secured to prevent falling or being knocked over.  
Separate full containers from empty containers.  
Do not store near combustible materials.  
Avoid area where salt or other corrosive materials are present.  
Keep in properly labelled containers.  
Store in accordance with the particular national regulations.

Materials to avoid : No special restrictions on storage with other products.

Recommended storage temperature : < 52 °C

Storage period : > 10 yr

Further information on storage stability : The product has an indefinite shelf life when stored properly.

Keep away from direct sunlight.

Packaging material : Unsuitable material: None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Ensure adequate ventilation, especially in confined areas.  
Minimize workplace exposure concentrations.

### Personal protective equipment

Respiratory protection : Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown.

Eye/face protection : Wear the following personal protective equipment:  
Safety glasses

Skin and body protection : Skin should be washed after contact.

Hand protection  
Material : Low temperature resistant gloves

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Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Breakthrough time is not determined for the product. Change gloves often!

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.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                                  |                                                          |
|--------------------------------------------------|----------------------------------------------------------|
| Appearance                                       | : liquid                                                 |
| Colour                                           | : clear, colourless                                      |
| Odour                                            | : odourless                                              |
| Odour Threshold                                  | : No data available                                      |
| pH                                               | : 7.4 (20 °C)                                            |
| Melting point/freezing point                     | : No data available                                      |
| Initial boiling point and boiling range          | : 33 °C                                                  |
| Flash point                                      | : Method: ASTM D 56<br>boils before flash                |
| Evaporation rate                                 | : No data available                                      |
| Flammability (solid, gas)                        | : Not applicable                                         |
| Flammability (liquids)                           | : Will not burn                                          |
| Upper explosion limit / Upper flammability limit | : Upper flammability limit<br>Method: ASTM E681<br>None. |

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|                                                  |   |                                                          |
|--------------------------------------------------|---|----------------------------------------------------------|
| Lower explosion limit / Lower flammability limit | : | Lower flammability limit<br>Method: ASTM E681<br>None.   |
| Vapour pressure                                  | : | 604.35 hPa (20 °C)                                       |
| Relative vapour density                          | : | No data available                                        |
| Density                                          | : | 1.4 g/cm <sup>3</sup> (20 °C)<br>(as liquid)             |
| Solubility(ies)<br>Water solubility              | : | 0.7633 g/l (25 °C)                                       |
| Partition coefficient: n-octanol/water           | : | log Pow: 2.3 (30 °C)                                     |
| Auto-ignition temperature                        | : | 492 °C                                                   |
| Decomposition temperature                        | : | No data available                                        |
| Viscosity<br>Viscosity, kinematic                | : | No data available                                        |
| Explosive properties                             | : | Not explosive                                            |
| Oxidizing properties                             | : | The substance or mixture is not classified as oxidizing. |
| Particle characteristics<br>Particle size        | : | Not applicable                                           |

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### 10. STABILITY AND REACTIVITY

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

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### 11. TOXICOLOGICAL INFORMATION

Exposure routes : Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Components:

##### (Z)-1,1,1,4,4,4-Hexafluoro-2-butene:

Acute inhalation toxicity : LC50 (Rat): > 690.413 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

No observed adverse effect concentration (Dog): 12500 ppm  
Test atmosphere: gas

Lowest observed adverse effect concentration (Dog): 25000 ppm  
Test atmosphere: gas

Cardiac sensitisation threshold limit (Dog): 1,677,740 mg/m3  
Test atmosphere: gas

#### Skin corrosion/irritation

Not classified based on available information.

#### Components:

##### (Z)-1,1,1,4,4,4-Hexafluoro-2-butene:

Result : No skin irritation

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Components:

##### (Z)-1,1,1,4,4,4-Hexafluoro-2-butene:

Result : No eye irritation

#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.



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### Respiratory sensitisation

Not classified based on available information.

### Components:

#### (Z)-1,1,1,4,4,4-Hexafluoro-2-butene:

|                 |                |
|-----------------|----------------|
| Exposure routes | : Skin contact |
| Result          | : negative     |

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### (Z)-1,1,1,4,4,4-Hexafluoro-2-butene:

|                                     |                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro               | : Test Type: Bacterial reverse mutation assay (AMES)<br>Method: OECD Test Guideline 471<br>Result: negative<br><br>Test Type: Chromosome aberration test in vitro<br>Method: OECD Test Guideline 473<br>Result: negative<br><br>Test Type: In vitro mammalian cell gene mutation test<br>Method: OECD Test Guideline 476<br>Result: negative |
| Genotoxicity in vivo                | : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)<br>Species: Rat<br>Application Route: inhalation (vapour)<br>Method: OECD Test Guideline 474<br>Result: negative                                                                                                                                            |
| Germ cell mutagenicity - Assessment | : Weight of evidence does not support classification as a germ cell mutagen.                                                                                                                                                                                                                                                                 |

### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

### Components:

#### (Z)-1,1,1,4,4,4-Hexafluoro-2-butene:

|                      |                                                                                                                                                                          |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Effects on fertility | : Test Type: Two-generation reproduction toxicity study<br>Species: Rat<br>Application Route: inhalation (vapour)<br>Method: OECD Test Guideline 416<br>Result: negative |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (vapour)  
Method: OECD Test Guideline 414  
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity, No effects on or via lactation

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Components:

#### (Z)-1,1,1,4,4,4-Hexafluoro-2-butene:

Exposure routes : inhalation (vapour)  
Assessment : No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

### Repeated dose toxicity

### Components:

#### (Z)-1,1,1,4,4,4-Hexafluoro-2-butene:

Species : Rat, male and female  
NOAEL : 33.5 mg/l  
LOAEL : 50.3 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 90 d  
Method : OECD Test Guideline 413

### Aspiration toxicity

Not classified based on available information.

### Components:

#### (Z)-1,1,1,4,4,4-Hexafluoro-2-butene:

No aspiration toxicity classification

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

### Components:

#### (Z)-1,1,1,4,4,4-Hexafluoro-2-butene:

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|                                                                        |                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                                       | : LC50 (Oryzias latipes (Japanese medaka)): 76.1 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203                                                                                                                                                 |
| Toxicity to daphnia and other aquatic invertebrates                    | : EC50 (Daphnia magna (Water flea)): 22.5 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202                                                                                                                                                        |
| Toxicity to algae/aquatic plants                                       | : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 23.7 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>NOEC (Pseudokirchneriella subcapitata (green algae)): 6.92 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |
| Toxicity to fish (Chronic toxicity)                                    | : NOEC (Gobiocypris rarus (rare gudgeon)): 10 mg/l<br>Exposure time: 32 d<br>Method: OECD Test Guideline 210                                                                                                                                                    |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC (Daphnia magna (Water flea)): 10 mg/l<br>Exposure time: 21 d<br>Method: OECD Test Guideline 211                                                                                                                                                          |

### Persistence and degradability

#### Components:

##### (Z)-1,1,1,4,4,4-Hexafluoro-2-butene:

|                  |                                                                          |
|------------------|--------------------------------------------------------------------------|
| Biodegradability | : Result: Not readily biodegradable.<br>Method: OECD Test Guideline 302C |
|------------------|--------------------------------------------------------------------------|

### Bioaccumulative potential

#### Components:

##### (Z)-1,1,1,4,4,4-Hexafluoro-2-butene:

|                                        |                |
|----------------------------------------|----------------|
| Partition coefficient: n-octanol/water | : log Pow: 2.3 |
|----------------------------------------|----------------|

### Mobility in soil

No data available

### Other adverse effects

No data available

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### 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Do not dispose of waste into sewer.  
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.

### 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
Environmentally hazardous : no

##### IATA-DGR

UN/ID No. : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
Packing instruction (cargo aircraft) : Not applicable  
Packing instruction (passenger aircraft) : Not applicable

##### IMDG-Code

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
EmS Code : Not applicable  
Marine pollutant : no

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

Not applicable for product as supplied.

#### National Regulations

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### GB 6944/12268

|                      |   |                |
|----------------------|---|----------------|
| UN number            | : | Not applicable |
| Proper shipping name | : | Not applicable |
| Class                | : | Not applicable |
| Subsidiary risk      | : | Not applicable |
| Packing group        | : | Not applicable |
| Labels               | : | Not applicable |
| Marine pollutant     | : | no             |

### Special precautions for user

Not applicable

## 15. REGULATORY INFORMATION

### National regulatory information

#### Regulations on Safety Management of Hazardous Chemicals

|                                  |   |                                                                                                                                                                    |
|----------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalogue of Hazardous Chemicals | : | This product is not listed in the catalogue of hazardous chemicals and it does not meet the definition of hazardous chemicals and its principles of determination. |
|----------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                 |   |            |
|---------------------------------------------------------------------------------|---|------------|
| Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218) | : | Not listed |
|---------------------------------------------------------------------------------|---|------------|

|                                                        |   |            |
|--------------------------------------------------------|---|------------|
| Hazardous Chemicals for Priority Management under SAWS | : | Not listed |
|--------------------------------------------------------|---|------------|

|                                                       |   |            |
|-------------------------------------------------------|---|------------|
| Catalogue of Specially Controlled Hazardous Chemicals | : | Not listed |
|-------------------------------------------------------|---|------------|

|                              |   |            |
|------------------------------|---|------------|
| List of Explosive Precursors | : | Not listed |
|------------------------------|---|------------|

#### Regulations on Labour Protection in Workplaces where Toxic Substances are Used

|                                     |   |            |
|-------------------------------------|---|------------|
| Catalogue of Highly Toxic Chemicals | : | Not listed |
|-------------------------------------|---|------------|

#### Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

|                                                                 |   |            |
|-----------------------------------------------------------------|---|------------|
| China Severely Restricted Toxic Chemicals for Import and Export | : | Not listed |
|-----------------------------------------------------------------|---|------------|

#### Regulation on the Administration of Precursor Chemicals

|                                                     |   |            |
|-----------------------------------------------------|---|------------|
| Catalogue and Classification of Precursor Chemicals | : | Not listed |
|-----------------------------------------------------|---|------------|

### Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

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### Regulations of Ozone Depleting Substances Management

|                                                                 |              |
|-----------------------------------------------------------------|--------------|
| List of Controlled Ozone Depleting Substances Import and Export | : Not listed |
| List of Controlled Ozone Depleting Substances                   | : Not listed |

### Environmental Protection Law

|                                       |              |
|---------------------------------------|--------------|
| List of Priority Controlled Chemicals | : Not listed |
| List of Key Controlled New Pollutants | : Not listed |

## 16. OTHER INFORMATION

Revision Date : 2025/04/24

Other information : Opteon™ and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC.  
Chemours™ and the Chemours Logo are trademarks of The Chemours Company.  
Before use read Chemours safety information.  
For further information contact the local Chemours office or nominated distributors.

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : yyyy/mm/dd

### Full text of other abbreviations

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 Standardisation; 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 Or-

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ganisation 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; 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, Authorisation 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

### Disclaimer

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