

# SAFETY DATA SHEET

## WESTON® PDDP



Version 3.1  
Revision Date:  
03/29/2021

Date of last issue: 02/02/2021  
Date of first issue: 04/12/2013

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### SECTION 1. IDENTIFICATION

#### Product identifier

Product name : WESTON® PDDP  
Other means of identification : diisodecyl phenyl phosphite

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

Recommended use : Antioxidant  
Restrictions on use : Reserved for industrial and professional use.

#### Manufacturer or supplier's details

##### Supplier

Company : SI Group USA (USAA), LLC  
Address : 4 Mountainview Terrace  
Suite 200  
Danbury, CT  
United States of America (USA)  
06810  
E-mail address : msdsrequest@siigroup.com

#### Emergency telephone

Emergency Phone Number : CHEMTREC/US : +1 703-741-5970  
NCEC/CHINA : 400 120 6011  
NCEC/INDIA : 000 800 100 7479  
NCEC/ROW : +44 1235 239670

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with 29 CFR 1910.1200

Skin irritation : Category 2  
Skin sensitization : Category 1  
Short-term (acute) aquatic hazard : Category 3  
Long-term (chronic) aquatic : Category 3

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hazard

### GHS label elements

Hazard pictograms

:



Signal Word

: Warning

Hazard Statements

: H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

: **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
**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

Substance name

: diisodecyl phenyl phosphite

Chemical nature

: Polymer stabilizer

### Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
diisodecyl phenyl phosphite	25550-98-5	>= 50 - < 70
triisodecyl phosphite	25448-25-3	>= 10 - < 20
isodecyl diphenyl phosphite	26544-23-0	>= 10 - < 20

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triphenyl phosphite	101-02-0	$\geq 1 - < 5$
Phenol	108-95-2	$\geq 0.1 - < 1$

The exact percentage concentrations of components are being withheld as a trade secret in accordance with paragraph (i) of §1910.1200

### SECTION 4. FIRST AID MEASURES

- General advice : Inhalation of vapours or mists of the product may be irritating to the respiratory system.  
Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.  
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.
- Most important symptoms and effects, both acute and delayed : sensitizing effects  
Allergic reactions  
irritant effects
- Notes to physician : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

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Hazardous combustion products	:	No hazardous combustion products are known.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Ensure adequate ventilation.
Environmental precautions	:	Try to prevent the material from entering drains or water courses. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

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## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	Material can accumulate static charges from material handling management. Bond and ground as appropriate while recognizing that bonding and grounding alone may be insufficient to eliminate the potential hazard from static-accumulating flammable liquids. For additional recommendations, consult an applicable guideline such as National Fire Protection Association [NFPA] 77, "Recommended Practices on Static Electricity" and API RP "Recommended Practice 2003, Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" (2008)

Avoid contact with skin and eyes.  
For personal protection see section 8.  
Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Smoking, eating and drinking should be prohibited in the application area.

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

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

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

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Phenol	108-95-2	TWA8-hour, time-weighted average	5 ppm	ACGIHUSA. ACGIH Threshold Limit Values (TLV)
		TWA8-hour time weighted average	5 ppm 19 mg/m3	OSHA Z-1USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA8-hour time weighted average	5 ppm 19 mg/m3	OSHA POUSA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWATime- weighted average concentration for up to a 10- hour workday during a 40- hour workweek	5 ppm 19 mg/m3	NIOSH RELUSA. NIOSH Recommended Exposure Limits
		CCeiling value not be exceeded at any time.	15.6 ppm 60 mg/m3	NIOSH RELUSA. NIOSH Recommended Exposure Limits

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### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Phenol	108-95-2	phenol	Urine	End of shift (As soon as possible after exposure ceases)	250 mg/g Creatinine	ACGIH BEIACGIH - Biological Exposure Indices (BEI)

**Engineering measures** : Use mechanical ventilation for general area control.  
Dust must be extracted directly at the point of origin.  
Ensure that extracted air cannot be returned to the workplace through the ventilation system.

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection  
Remarks : Polyvinyl alcohol or nitrile- butyl-rubber gloves Before removing gloves clean them with soap and water.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

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

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colorless to light yellow

Odor : phenol-like

Odor Threshold : No data available

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pH	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	160 °C / 160 °C Method: DIN 51758
Evaporation rate	:	<Ether
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	Heavier than air
Relative density	:	0.94
Bulk density	:	No data available
Solubility(ies) Water solubility	:	insoluble, hydrolyzes
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition 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
Surface tension	:	No data available

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## SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: Stable under recommended storage conditions. No decomposition if used as directed.
Conditions to avoid	: No data available
Incompatible materials	: Water
Hazardous decomposition products	: No hazardous decomposition products are known.

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Skin contact

### Acute toxicity

#### Product:

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg Remarks: Information given is based on data obtained from similar substances.
Acute inhalation toxicity	: Acute toxicity estimate: > 200 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

#### Components:

##### **triisodecyl phosphite:**

Acute oral toxicity	: LD50 Oral (Rat, male and female): 5,000 mg/kg
Acute inhalation toxicity	: LC50 (Rat, male and female): > 12.6 mg/l Exposure time: 1 h GLP: yes
Acute dermal toxicity	: LD50 (Rabbit, male and female): 5,000 mg/kg

##### **isodecyl diphenyl phosphite:**



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Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg  
GLP: yes

### **triphenyl phosphite:**

Acute oral toxicity : LD50 (Rat): 1,600 mg/kg

### **Phenol:**

Acute oral toxicity : LD50 (Rat): 340 mg/kg

Acute inhalation toxicity : LC50 (Rat): 310 - 316 mg/l

Acute dermal toxicity : LD50 (Rabbit): 850 mg/kg

### **Skin corrosion/irritation**

#### **Product:**

Species : Rabbit  
Result : Skin irritation

Remarks : May cause skin irritation and/or dermatitis.

#### **Components:**

##### **isodecyl diphenyl phosphite:**

Species : Rabbit  
Method : Draize Test  
Result : No skin irritation

##### **triphenyl phosphite:**

Species : Rabbit  
Result : Irritating to skin.

### **Serious eye damage/eye irritation**

#### **Product:**

Remarks : Vapors may cause irritation to the eyes, respiratory system and the skin.

#### **Components:**

##### **triisodecyl phosphite:**

Species : Rabbit  
Result : No eye irritation

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**isodecyl diphenyl phosphite:**

Species : Rabbit  
Result : No eye irritation

**triphenyl phosphite:**

Species : Rabbit  
Result : Irritating to eyes.

**Respiratory or skin sensitization****Product:**

Remarks : Causes sensitization.

**Components:****isodecyl diphenyl phosphite:**

Species : Guinea pig  
Assessment : Did not cause sensitization on laboratory animals.

**triphenyl phosphite:**

Species : Guinea pig  
Result : Did not cause sensitization on laboratory animals.

**Germ cell mutagenicity****Product:**

Germ cell mutagenicity - Assessment : Not classified due to lack of data.

**Components:****diisodecyl phenyl phosphite:**

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

**triisodecyl phosphite:**

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

Test Type: Chromosome aberration test in vitro  
Method: Mutagenicity (micronucleus test)  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse

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Application Route: Oral  
Result: negative  
GLP: yes

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

### **isodecyl diphenyl phosphite:**

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

Test Type: Unscheduled DNA synthesis (UDS)  
Metabolic activation: with and without metabolic activation  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse (male and female)  
Application Route: Oral  
Result: negative  
GLP: yes

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

### **triphenyl phosphite:**

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

Genotoxicity in vivo : Test Type: in vivo assay  
Result: negative

Germ cell mutagenicity - Assessment : Did not show mutagenic effects in animal experiments.

### **Carcinogenicity**

#### **Product:**

Carcinogenicity - Assessment : Not classified due to lack of data.

### **Reproductive toxicity**

#### **Product:**

Reproductive toxicity - Assessment : Not classified due to lack of data.

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**Components:****triisodecyl phosphite:**

Reproductive toxicity - : No toxicity to reproduction  
Assessment : No effects on or via lactation

**STOT-single exposure**

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

**STOT-repeated exposure****Product:**

Assessment : Not classified due to lack of data.

**Components:****triisodecyl phosphite:**

Routes of exposure : Oral  
Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**isodecyl diphenyl phosphite:**

Routes of exposure : Oral  
Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Repeated dose toxicity**

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

**Aspiration toxicity**

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

**Further information****Product:**

Remarks : No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Algae): 45 mg/l  
Exposure time: 72 h

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Toxicity to microorganisms : Remarks: No data is available on the product itself.

### Components:

#### **Phenol:**

Toxicity to fish : LC50 (Fish): 5 - 12 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 7.5 - 100 mg/l

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC10 (Bacteria): 10 - 30,000 mg/l

### **Persistence and degradability**

#### Product:

Biodegradability : Remarks: No data available

### Components:

#### **triisodecyl phosphite:**

Biodegradability : aerobic  
Result: According to the results of tests of biodegradability this product is not readily biodegradable.  
Biodegradation: 1.31 %  
Exposure time: 28 d

#### **isodecyl diphenyl phosphite:**

Biodegradability : Result: According to the results of tests of biodegradability this product is not readily biodegradable.  
Biodegradation: 1.31 %  
Exposure time: 28 d

### **Bioaccumulative potential**

#### Product:

Bioaccumulation : Remarks: No data available

### Components:

#### **Phenol:**

Partition coefficient: n-octanol/water : log Pow: 1.5

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### Mobility in soil

#### Product:

Mobility : Remarks: No data available

### Other adverse effects

#### Product:

Results of PBT and vPvB assessment : This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82  
Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
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 : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### **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**

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Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

Not regulated as a dangerous good

## SECTION 15. REGULATORY INFORMATION

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

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Phenol	108-95-2	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Phenol	108-95-2	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
Phenol	108-95-2	10000
Phenol	108-95-2	500

**SARA 311/312 Hazards** : See section 2 for classified hazards based on component information

**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).

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

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

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

### Clean Water Act

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

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

Phenol	108-95-2	>= 0.1 - < 1 %
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The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Phenol	108-95-2	>= 0.1 - < 1 %
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### US State Regulations

#### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know

triisodecyl phosphite	25448-25-3
diisodecyl phenyl phosphite	25550-98-5
isodecyl diphenyl phosphite	26544-23-0

#### New Jersey Right To Know

triphenyl phosphite	101-02-0
triisodecyl phosphite	25448-25-3
diisodecyl phenyl phosphite	25550-98-5
isodecyl diphenyl phosphite	26544-23-0

### The ingredients 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
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
ISHL	: On the inventory, or in compliance with the inventory
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
TCSI	: On the inventory, or in compliance with the inventory
TSCA	: On or in compliance with the active portion of the TSCA inventory

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

## SECTION 16. OTHER INFORMATION



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### Further information

#### NFPA 704:

	Flammability	
2		
2	0	Instability
Health		

#### HMIS® IV:

Special hazard.

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### 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

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