

**SAFETY DATA SHEET**

Revision Date: 02/22/2018

Print Date: 8/31/2018

SDS Number: R0718411

Version: 1.3

Peroxydone™ K-30 complexes  
™ Trademark, Ashland or its subsidiaries, registered  
in various countries  
830668

29 CFR 1910.1200 (OSHA HazCom 2012)

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

Trade name : Peroxydone™ K-30  
complexes  
™ Trademark, Ashland or its subsidiaries, registered in  
various countries

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

Recommended use : 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**

Oxidizing solids : Category 1

Combustible Dust :

Skin irritation : Category 2

Serious eye damage : Category 1

**GHS label elements**

Hazard pictograms :



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Signal Word : Danger

Hazard Statements : May cause fire or explosion; strong oxidizer.  
May form combustible dust concentrations in air.  
Causes skin irritation.  
Causes serious eye damage.

Precautionary Statements : **Prevention:**  
Keep away from heat.  
Keep/Store away from clothing/ combustible materials.  
Take any precaution to avoid mixing with combustibles.  
Wash skin thoroughly after handling.  
Wear protective gloves/ eye protection/ face protection.  
Wear fire/ flame resistant/ retardant clothing.  
Keep dust/air mixtures away from ignition sources.  
**Response:**  
IF ON SKIN: Wash with plenty of soap and water.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.  
If skin irritation occurs: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.  
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.  
**Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : organic

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**Hazardous components**

Chemical name	CAS-No.	Classification	Concentration (%)
HYDROGEN PEROXIDE	7722-84-1	Ox. Liq. 1; H271  Acute Tox. 4; H302  Acute Tox. 4; H332  Skin Corr. 1A; H314  Eye Dam. 1; H318  STOT SE 3; H335	19.9999

**SECTION 4. FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
 Consult a physician.  
 Show this safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
 IF INHALED: Call a POISON CENTER/ doctor if you feel unwell.  
 Keep patient warm and at rest.  
 If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.  
 If on skin, rinse well with water.  
 Wash contaminated clothing before re-use.  
 If on clothes, remove clothes.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 Continue rinsing eyes during transport to hospital.  
 Remove contact lenses.  
 Protect unharmed eye.
- If swallowed : Obtain medical attention.  
 Do NOT induce vomiting.  
 Do not give milk or alcoholic beverages.  
 Never give anything by mouth to an unconscious person.



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If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
 irritation (nose, throat, airways)  
 Lung irritation  
 bronchitis  
 Headache  
 Dizziness  
 lung edema (fluid buildup in the lung tissue)  
 seizures  
 Convulsions  
 Causes skin irritation.  
 Causes serious eye damage.

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  
 Carbon dioxide (CO2)  
 Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Organic dusts at sufficient concentration can form explosive mixtures in air.  
 Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
 Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide  
 Nitrogen oxides (NOx)  
 acetic acid

Specific extinguishing methods :

Product is compatible with standard fire-fighting agents.



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- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
 Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : Fight fire remotely due to the risk of explosion.  
 In the event of fire, wear self-contained breathing apparatus.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
 Use personal protective equipment.  
 Ensure adequate ventilation.  
 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 : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).  
 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.  
 Provide sufficient air exchange and/or exhaust in work rooms.  
 Do not breathe vapours/dust.  
 Do not smoke.  
 Ensure all equipment is electrically grounded and bonded before beginning transfer operations.  
 The material can accumulate static charge and can therefore cause electrical ignition of flammable atmospheres.  
 Container hazardous when empty.  
 Avoid contact with skin and eyes.  
 Smoking, eating and drinking should be prohibited in the



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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.  
 Prevent unauthorized access.  
 Electrical installations / working materials must comply with the technological safety standards.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
HYDROGEN PEROXIDE	7722-84-1	TWA	1 ppm	ACGIH
		TWA	1 ppm 1.4 mg/m3	NIOSH REL
		TWA	1 ppm 1.4 mg/m3	OSHA Z-1
		TWA	1 ppm 1.4 mg/m3	OSHA P0
		PEL	1 ppm 1.4 mg/m3 (H2O2)	CAL PEL

**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.



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Provide appropriate exhaust ventilation at places where dust is formed.

### Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.  
 Dust safety masks are recommended when the dust concentration is more than 10 mg/m<sup>3</sup>.

### Hand protection

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

### Eye protection

: Wear chemical splash goggles and face shield to protect eyes and skin from airborne dust.  
 Maintain eye wash station in immediate work area.

### Skin and body protection

: Wear as appropriate:  
 Safety shoes  
 Dust impervious protective suit  
 Flame-resistant clothing  
 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.  
 Wear resistant gloves (consult your safety equipment supplier).

### Hygiene measures

: Avoid breathing dust.  
 Wash hands before breaks and at the end of workday.  
 When using do not eat or drink.  
 When using do not smoke.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder  
 Physical state : solid  
 Odour : No data available  
 Odour Threshold : No data available  
 pH : 6.0 - 7.0  
 Concentration: 1



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Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : 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 : 1 g/cm<sup>3</sup> (20 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.





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Possibility of hazardous reactions : Dust may form explosive mixture in air.

Conditions to avoid : Keep away from heat, flame, sparks and other ignition sources.

Avoid heat, open flame, and prolonged storage at elevated temperatures.

Incompatible materials : Combustible material  
 Copper  
 Cyanides  
 Metals  
 metal salts  
 Organic materials  
 Reducing agents  
 Strong oxidizing agents

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): > 5,000 mg/kg  
 Remarks: Based on similar product.

Remarks: Hydrogen peroxide ingestion can cause irritation of the gastrointestinal system with possible abdominal pain, nausea, vomiting and diarrhea. Large ingestions can cause rapid release of oxygen which may expand the esophagus or stomach resulting in severe damage (bleeding, ulceration or perforation).

### Components:

HYDROGEN PEROXIDE:

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Acute oral toxicity : LD50 (Rat, male): 1,026 mg/kg  
LD50 (Rat, female): 694 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1 - < 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Assessment: Not classified as acutely toxic by dermal  
absorption under GHS.  
Remarks: No mortality observed at this dose.

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

Species: Rabbit

Result: Irritating to skin.

Remarks: May cause skin irritation and/or dermatitis.

**Components:**

HYDROGEN PEROXIDE:

Result: Corrosive after 3 minutes or less of exposure

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Species: Rabbit

Result: Corrosive

Remarks: May cause irreversible eye damage., Eye effects may be delayed.

**Components:**

HYDROGEN PEROXIDE:

Result: Corrosive

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

**Components:**

HYDROGEN PEROXIDE:

Genotoxicity in vitro : Test Type: Ames test

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Result: Positive results were obtained in some in vitro tests.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**Components:**

HYDROGEN PEROXIDE:

Target Organs: Respiratory Tract

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

**STOT - repeated exposure**

Not classified based on available information.

**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:**

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 3; Harmful to aquatic life.

Chronic aquatic toxicity : Not classified based on available information.



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### Components:

#### HYDROGEN PEROXIDE:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 16.4 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 2.4 mg/l  
 aquatic invertebrates Exposure time: 48 h  
 Test Type: semi-static test

Toxicity to algae : EC50 (Skeletonema costatum (marine diatom)): 1.38 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test

NOEC (Skeletonema costatum (marine diatom)): 0.63 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 0.63 mg/l  
 aquatic invertebrates Exposure time: 21 d  
 (Chronic toxicity) Test Type: flow-through test

### **Persistence and degradability**

#### Components:

#### HYDROGEN PEROXIDE:

Biodegradability : Result: The methods for determining biodegradability are not  
 applicable to inorganic substances.

No data available

### **Bioaccumulative potential**

#### Components:

No data available

### **Mobility in soil**

#### Components:

No data available

### **Other adverse effects**

No data available

#### Product:

Additional ecological : No data available  
 information

### Components:

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

## General advice

- : Do not dispose of waste into sewer.
- 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.
- Do not burn, or use a cutting torch on, the empty drum.

**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**

UN 3088	SELF-HEATING SOLID, ORGANIC, N.O.S. (HYDROGEN PEROXIDE)	4.2		II	
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

UN 3088	Self-heating solid, organic, n.o.s. (HYDROGEN PEROXIDE)	4.2		II	
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

UN 3088	Self-heating solid, organic, n.o.s. (HYDROGEN PEROXIDE)	4.2		II	
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**INTERNATIONAL MARITIME DANGEROUS GOODS**

UN	3088	SELF-HEATING SOLID, ORGANIC, N.O.S. (HYDROGEN PEROXIDE)	4.2	II
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**TDG\_INWT\_C**

UN	3088	SELF-HEATING SOLID, ORGANIC, N.O.S. (HYDROGEN PEROXIDE)	4.2	II
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**TDG\_RAIL\_C**

UN	3088	SELF-HEATING SOLID, ORGANIC, N.O.S. (HYDROGEN PEROXIDE)	4.2	II
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**TDG\_ROAD\_C**

UN	3088	SELF-HEATING SOLID, ORGANIC, N.O.S. (HYDROGEN PEROXIDE)	4.2	II
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**U.S. DOT - INLAND WATERWAYS**

UN	3088	Self-heating solid, organic, n.o.s.	4.2	II
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**CFR\_RAIL\_C**

UN	3088	Self-heating solid, organic, n.o.s.	4.2	II
----	------	--	-----	----

**U.S. DOT - ROAD**

UN	3088	Self-heating solid, organic, n.o.s.	4.2	II
----	------	--	-----	----

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

Marine pollutant	no
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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.

**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**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
HYDROGEN PEROXIDE	7722-84-1	1000	5000

**SARA 311/312 Hazards** : Combustible Dust  
Oxidiser (liquid, solid or gas)  
Skin corrosion or irritation  
Serious eye damage or eye irritation

**SARA 302** :  
  
HYDROGEN PEROXIDE 7722-84-1 19.99 %

**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**

POLYVINYL PYRROLIDONE	9003-39-8
HYDROGEN PEROXIDE	7722-84-1

**New Jersey Right To Know**

POLYVINYL PYRROLIDONE	9003-39-8
HYDROGEN PEROXIDE	7722-84-1

**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

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ENCS	: 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
TSCA	: On TSCA Inventory

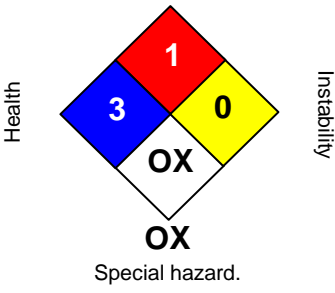
### Inventories

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

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

### NFPA Flammable and Combustible Liquids Classification

Not applicable

### Full text of H-Statements

H271	May cause fire or explosion; strong oxidizer.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.



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H335

May cause respiratory irritation.

## 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 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,

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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