



## Inorganic Solve 50C

### Safety Data Sheet

Date Issued: 05/07/2015

Date Revised: 05/07/2015



#### I.

##### PRODUCT IDENTIFICATION

COMPANY: WaterSolve, LLC, 5031 68<sup>TH</sup> Street Caledonia, Michigan 49316, USA

For Product information call 616-575-8693

**Product Name:** Solve 50C

**Chemical Type:** Liquid

**Recommended Use Substance/Mixture:** Municipal and industrial water and wastewater treatment for the removal of turbidity, color, suspended solids and phosphorus. Sludge compaction and volume reduction. Lagoon treatment. Oily wastewater clarification and dissolved air flotation. Emulsion breaking.

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300

Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

#### II.

##### HAZARDS IDENTIFICATION

###### Classification of the Substance or Mixture

Classification (GHS-US)

Met. Corr. 1 H290

Skin Irrit. 2 H315

Eye Dam. 1 H318

###### Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US):



Signal Word (GHS-US) : DANGER

Hazard Statements (GHS-US) :

H290 - May be corrosive to metals.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

Precautionary Statements (GHS-US) : P234 - Keep only in original container.

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves, protective clothing, eye protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310-Immediately call a POISON CENTER or doctor.

P321 - Specific treatment (see Section 4).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P362 - Take off contaminated clothing and wash before reuse.  
P390 - Absorb spillage to prevent material damage.  
P406 - Store in corrosive resistant container with a resistant inner liner.

**OTHER HAZARDS Not contributing to the classification:** Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. If involved in a fire and thermal decomposition occurs, or other decomposition occurs, corrosive, toxic, and acrid vapors may be released.

**Unknown Acute Toxicity (GHS-US)---**Not available.

### **III. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Name</b>	<b>CASE #/IDENTIFIER</b>	<b>% (w/w)</b>	<b>Classification (GHS-US)</b>
Aluminum chloride, basic	1327-41-9	15 - 40	Met. Corr. 1, H290 Eye Dam. 1, H318
Phosphoric acid	7664-38-2	1 - 5	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
Water	7732-18-5	40 - 70	Not classified

\*The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

\*A range of concentration as prescribed by Controlled Products Regulations has been used where necessary, due to varying composition.

Full text of H-phrases: see section 16

### **IV. FIRST AID**

#### **Description of First Aid Measures**

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Keep at rest and in a position comfortable for breathing. Seek medical attention. Symptoms may be delayed.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash skin thoroughly with mild soap and water. Seek medical attention immediately if irritation develops or persists.

**Eye Contact:** Immediately rinse with water for a prolonged period while holding the eyelids wide open. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

**Ingestion:** Rinse mouth thoroughly with water. Do NOT induce vomiting. Seek medical attention immediately.

#### **Most Important Symptoms and Effects Both Acute and Delayed**

**General:** Causes skin irritation. Causes serious eye damage.

**Inhalation:** May cause irritation to the respiratory tract. Symptoms may be delayed.

**Skin Contact:** Causes skin irritation.

**Eye Contact:** Causes serious eye damage.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

#### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

If you feel unwell, seek medical advice (show the label where possible).

## **V. FIRE AND EXPLOSION HAZARD DATA**

### **Extinguishing Media**

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

**Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Not flammable.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Reacts with (strong) oxidizers: (increased) risk of fire.

### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

**Firefighting Instructions:** Keep upwind. Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** Corrosive vapors. Acrid smoke and irritating fumes. Hydrogen chloride.

**Other Information:** Do not allow the product to be released into the environment.

**Reference to Other Sections**

Refer to section 9 for flammability properties.

## **VI. ACCIDENTAL RELEASE MEASURES/WASTE DISPOSAL**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Avoid all unnecessary exposure. Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel. Keep upwind.

#### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Stop leak if safe to do so. Ventilate area. Eliminate ignition sources.

### **Environmental Precautions**

If spill could potentially enter any waterways, including intermittent dry creeks, contact proper local, state, international and federal authorities.

### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning up:** Ventilate area. Clear up spills immediately and dispose of waste safely. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Collect absorbed material and place into a sealed, labeled container for proper disposal. Practice good housekeeping-spillage can be slippery on smooth surface either wet or dry.

#### **Reference to Other Sections**

See heading Section 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

## **VII. STORAGE AND HANDLING**

### **Precautions for Safe Handling**

**Additional Hazards When Processed:** Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Contact with metals may evolve flammable hydrogen gas. May be corrosive to metals.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke in areas where product is used.

**Conditions for Safe Storage, Including Any Incompatibilities**

**Technical Measures:** Observe all regulations and local requirements regarding storage of containers.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store away from oxygen and oxidizers. Storage areas should be periodically checked for corrosion and integrity.

**Incompatible Materials:** Strong oxidizers. Strong bases. Alkalis. Metals.

**Specific End Use(s) :** Municipal and industrial water and wastewater treatment for the removal of turbidity, color, suspended solids and phosphorus. Sludge compaction and volume reduction. Lagoon treatment. Oily wastewater clarification and dissolved air flotation. Emulsion breaking.

**VIII. EXPOSURE CONTROL/PERSONAL PROTECTION**

**Control Parameters**

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

<b>Phosphoric acid (7664-38-2)</b>		
<b>Mexico</b>	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>Mexico</b>	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
<b>USA ACGIH</b>	ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>USA ACGIH</b>	ACGIH STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (STEL) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
<b>USA IDLH</b>	US IDLH (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>British Columbia</b>	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
<b>British Columbia</b>	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>Manitoba</b>	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
<b>Manitoba</b>	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>Newfoundland &amp; Labrador</b>	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
<b>Newfoundland &amp; Labrador</b>	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>Nova Scotia</b>	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
<b>Nova Scotia</b>	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>Ontario</b>	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
<b>Ontario</b>	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>Prince Edward Island</b>	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
<b>Prince Edward Island</b>	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>Québec</b>	VECD (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>Saskatchewan</b>	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
<b>Saskatchewan</b>	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>

### Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local/state /international regulations are observed.

**Personal Protective Equipment:** Avoid all unnecessary exposure. Insufficient ventilation: wear respiratory protection. Protective clothing. Protective goggles. Gloves.

**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Impermeable protective gloves.

**Eye Protection:** A full face shield is recommended. Chemical safety goggles.

**Skin and Body Protection:** Chemical resistant suit. Rubber apron, boots.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use.

## IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquis
Chemical Formula:	Mixture
Appearance:	Not available
Odor:	Not available
Odor threshold:	Not available
Boiling point:	Not available
Melting point:	Not available
Freezing point:	-9°C (16°F)
Auto-ignition Temperature:	Not applicable
Decomposition temperature:	Not applicable
Specific gravity:	1.31-1.33
Vapor Pressure:	Not available
Relative Density:	Not available
pH:	1 - 3
Solubility:	100%
Flash point:	Not applicable
Flammable Limits (% by vol):	Not available
Explosive Properties:	Product is not explosive
Partition coefficient (n-octanol/water):	Not available
Viscosity:	Not available
Explosion Data-Sensitivity to Mechanical impact:	Not expected to present an explosion hazard due to mechanical impact.
Explosion Data-Sensitivity to Static Discharge:	Not expected to present an explosion hazard due to static discharge.

## X. STABILITY AND REACTIVITY DATA

**Reactivity:** Reacts with (strong) oxidizers: (increased) risk of fire.

**Chemical Stability:** Stable under recommended handling and storage conditions (see Section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, open flames, sources of ignition and incompatible

**Incompatible Products:** Strong bases, strong oxidizers, alkalis, metals.

**Hazardous Decomposition Products:** Corrosive vapours. Acrid smoke and irritating fumes, hydrogen chloride.

## **XI. TOXICOLOGICAL INFORMATION**

### **Information on Toxicological Effects - Product**

**Acute Toxicity:** Not classified

**LD50 and LC50 Data:** Not available

**Skin/Corrosion/Irritation:** Causes skin irritation.

**pH:** 1 - 3

**Serious Eye Damage/Irritation:** Causes serious eye damage.

**pH:** 1 - 3

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May cause irritation to the respiratory tract. Symptoms may be delayed.

**Symptoms/Injuries After Skin Contact:** Causes skin irritation.

**Symptoms/Injuries After Eye Contact:** Causes serious eye damage.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

### **Information on Toxicological Effects - Ingredient(s)**

#### **LD50 and LC50 Data:**

<b>Aluminum chloride, basic (1327-41-9)</b>	
LD50 Oral Rat	>2000 mg/kg
LD 50 Dermal Rat	>2000 mg/kg
<b>Phosphoric acid (7664-38-2)</b>	
LD50 Oral Rat	1530 mg/kg
LD50 Dermal Rabbit	2730 mg/kg
LC50 Inhalation Rat	>850 mg/m <sup>3</sup> (Exposure time: 1h)

## **XII. ECOLOGICAL INFORMATION**

### **Toxicity**

Not classified

### **Persistence and Degradability**

Not available

### **Bioaccumulative Potential**

Not available

### **Mobility in Soil**

Not available

### **Other Adverse Effects**

Not available

## **XIII. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods:** Dispose of waste in accordance with all federal, state, international, territorial, provincial and local regulations.

**Sewer Disposal Recommendations:** Do not dispose of waste into sewer. Do not empty into drains; dispose of this material and its container in a safe way.

**XIV. TRANSPORTATION INFORMATION**

**DOT:** **Regulated**  
**Proper Shipping Name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS POLYALUMINUM HYDROXYCHLORIDE, PHOSPHORIC ACID)  
**Hazard Class:** 8  
**UN-NO:** UN3264  
**Label Codes:** 8  
**Packing Group:** III  
**ERG NUMBER:** 154

**IMDG:** **Regulated**  
**Proper Shipping Name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS POLYALUMINUM HYDROXYCHLORIDE, PHOSPHORIC ACID)  
**Hazard Class:** 8  
**UN-NO:** UN3264  
**Label Codes:** 8  
**Packing Group:** III  
**EmS-No. (Fire):** F-A  
**EmS-No. (Spillage):** S-B

**IATA:** **Regulated**  
**Proper Shipping Name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS POLYALUMINUM HYDROXYCHLORIDE, PHOSPHORIC ACID)  
**Hazard Class:** 8  
**UN-NO:** UN3264  
**Label Codes:** 8  
**Packing Group:** III  
**ERG CODE (IATA):** 8L

**TDG:** **Regulated**  
**Proper Shipping Name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS POLYALUMINUM HYDROXYCHLORIDE, PHOSPHORIC ACID)  
**Hazard Class:** 8  
**UN-NO:** UN3264  
**Label Codes:** 8  
**Packing Group:** III

**XV. REGULATORY INFORMATION**

**US Federal Regulations**

Product Solve 50C	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

**Aluminum chloride, basic (1327-41-9):**

Listed on the United States TSCA (Toxic Substances Control Act Inventory)

**Water (7732-18-5):**

Listed on the United States TSCA (Toxic Substances Control Act Inventory)

**Phosphoric acid (7664-38-2)**

Listed on the United States TSCA (Toxic Substances Control Act Inventory)

**US STATE REGULATIONS**

<b>Phosphoric acid (7664-38-2)</b>
U.S.- Massachusetts-Right to Know List
U.S.- New Jersey-Right to Know Hazardous Substance List
U.S.- Pennsylvania-RTK (Right to Know List)-Environmental Hazard List
U.S.- Pennsylvania-RTK (Right to Know List)-List

**Canadian Regulations**

**Product Solve 50C**

WHMIS Classification	Class E- Corrosive Material Class D Division 2 Subdivision B-Toxic material causing other toxic effects
----------------------	------------------------------------------------------------------------------------------------------------



**Aluminum chloride, basic (1327-41-9):**

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Class E- Corrosive Material
----------------------	-----------------------------

**Phosphoric acid (7664-38-2)**

Listed on the Canadian DSL (Domestic Substances List)

Listed on the Canadian IDL (Ingredient Disclosure List)

**IDL Concentration 1%**

WHMIS Classification	Class E- Corrosive Material Class D Division 2 Subdivision B-Toxic material causing other toxic effects
----------------------	------------------------------------------------------------------------------------------------------------

**Water (7732-18-5)**

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
----------------------	-----------------------------------------------------------------

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

**OTHER INFORMATION**

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

**GHS Full Text Phrases:**

Acute Tox. 4 (oral)	Acute toxicity (Oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Met. Corr.1	Corrosive to metals Category 1B
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage

**DATE ISSUED: 5/04/2015**

**DATE REVISED: 5/04/2015**

**Revision number: 0**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information.



The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This information is for the specific material described only and may not be valid if the material is used in combination with any other materials or in any process. The user is responsible to determine the completeness of the information and suitability for the user's own particular use. The knowledge and belief of the company, the information is accurate and reliable as of the date indicated but the company makes no express or implied warranty of merchantability for the material or the information. The company makes no express or implied warranty of fitness for a purpose for the material or for the information. Users of any chemical should educate themselves on all aspects of its use by independent investigation of current scientific and medical knowledge that the material can be used safely. Both the supplier and manufacturer make no representations and assume no liability for any direct, incidental or consequential damages resulting from its use. Both the supplier and manufacturer make no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The buyer assumes all responsibility for using and handling the product in accordance with applicable federal, state, local and international regulations.

**List of abbreviations and acronyms that could be, but not necessarily are, used in the safety data sheet:**

ACGIH: American Conference of Industrial Hygienists  
BEI: Biological Exposure Index  
CAS Chemical: Abstracts Service (Division of the American Chemical Society)  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act  
CMR: Carcinogenic, Mutagenic or Toxic for Reproduction  
DOT: Department of Transportation  
FG: Food grade  
FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals  
H-statement: Hazard Statement  
HMIRC: Hazardous Materials Information Review Commission  
HMIS: Hazardous Materials Identification System  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"  
IMDG: International Maritime Code for Dangerous Goods  
ISO: International Organization for Standardization  
logPow: octanol-water partition coefficient  
LCxx: Lethal Concentration, for xx percent of test population  
LDxx: Lethal Dose, for xx percent of test population  
ICxx: Inhibitory Concentration for xx of a substance  
ECxx: Effective Concentration of xx  
N.O.S.: Not otherwise specified  
NFPA: National Fire Protection Association  
NIOSH: National Institute for Occupational Safety and Health  
OECD: Organization for Economic Co-operation and Development  
OEL: Occupational Exposure Limit  
OSHA: Occupational Safety and Health Administration  
P-Statement: Precautionary Statement  
PBT: Persistent, Bioaccumulative and Toxic  
PMRA: Health Canada Pest Management Regulatory Agency  
PPE: Personal Protective Equipment  
RTK: Right to Know  
SDS: Safety Data Sheet  
STEL: Short-term exposure limit  
STOT: Specific Target Organ Toxicity  
TLV: Threshold Limit Value  
TWA: Time-weighted average  
VPVB: Very Persistent and Very Bioaccumulative  
WEL: Workplace Exposure Level  
WHMIS: Workplace Hazardous Materials Information System