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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Amertrol™ 1100 ODT
BOILER WATER TREATMENT
™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet Solenis LLC 500 Hercules Road Wilmington Delaware 19808 United States of America RegulatoryRequestsNA@solenis.com	Emergency telephone number 1-844-SOLENIS (844-765-3647) / 606-329-5705 Product Information 1-844-SOLENIS (844-765-3647)
--	--

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion : Category 1

Serious eye damage : Category 1

GHS Label element


Hazard pictograms :



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.
Causes serious eye damage.

Precautionary Statements : **Prevention:**
Wash skin thoroughly after handling.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
 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 or doctor/physician.
 Wash contaminated clothing before reuse.
Storage:
 Store locked up.
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 : Defatter

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
INORGANIC SALT	254504001-5294	Eye Irrit. 2A; H319	>= 5.00 - < 10.00

Trade Secret Composition - Conceal the Identity + Concentration

POTASSIUM HYDROXIDE	1310-58-3	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1; H314 Eye Dam. 1; H318	>= 1.50 - < 5.00
2-DIETHYLAMINOETHANOL	100-37-8	Flam. Liq. 3; H226 Acute Tox. 4; H302	>= 1.50 - < 5.00


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		Acute Tox. 3; H331	
		Acute Tox. 3; H311	
		Skin Corr. 1B; H314	
		Eye Dam. 1; H318	
		STOT SE 3; H335	

Trade Secret Composition - Conceal the Identity + Concentration

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 breathed in, move person into fresh air.
Keep patient warm and at rest.
If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.
Wash contaminated clothing before re-use.
- 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 : Get medical attention immediately.
Do NOT induce vomiting.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Sulfur dioxide may be released if this material comes into contact with acids, water and/or ice. In contact with moisture, sulfur dioxide forms sulfuric acid which is corrosive to skin and mucous membranes.
Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

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the skin may include:
 stomach or intestinal upset (nausea, vomiting, diarrhea)
 irritation (nose, throat, airways)
 Cough
 lung edema (fluid buildup in the lung tissue)
 Difficulty in breathing
 Causes serious eye damage.
 Causes severe burns.

Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Water spray
 Foam
 Carbon dioxide (CO2)
 Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Oxides of phosphorus
 potassium oxide
 sodium monoxide
 sodium sulfide residue
 sulfur dioxide
 toxic fumes
 Ammonia
 carbon dioxide and carbon monoxide
 nitrogen oxides (NOx)
- Specific extinguishing methods :

 Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
 Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent product from entering drains.
 Prevent further leakage or spillage if safe to do so.
 If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.
- Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not breathe vapours/dust.
 Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed.
 When diluting, always add the product to water. Never add water to the product.
 Container hazardous when empty.
 Avoid contact with skin and eyes.
 Smoking, eating and drinking should be prohibited in the application area.
 For personal protection see section 8.
 Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
 Observe label precautions.
 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
INORGANIC BASE	254504001-6415	Ceiling	2 mg/m ³	PY OEL
		Ceiling	2 mg/m ³	ACGIH

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		REL	2 mg/m3	NIOSH/GUID E
		Ceiling	2 mg/m3	TN OEL
AMINE	254504001-6272	TWA	2 ppm	PY OEL
		TWA	2 ppm	ACGIH
		REL	10 ppm 50 mg/m3	NIOSH/GUID E
		PEL	10 ppm 50 mg/m3	OSHA_TRANS
		TWA	10 ppm 50 mg/m3	TN OEL

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.

Personal protective equipment

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 when there is potential for exposure of the eyes or face to liquid, vapor or mist.
Maintain eye wash station in immediate work area.

Skin and body protection

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

Hygiene measures

: Wash hands before breaks and at the end of workday.
When using do not eat or drink.
Ensure that eyewash stations and safety showers are close to the workstation location.
When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Odour : No data available

Odour Threshold : No data available

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pH	: 13.9
Melting point/freezing point	: No data available
Boiling point/boiling range	: > 212 °F / 100 °C
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: 11.7 %(V) Calculated Explosive Limit
Lower explosion limit	: 6.7 %(V) Calculated Explosive Limit
Vapour pressure	: 27.9972 hPa (20 °C) Calculated Vapor Pressure
Relative vapour density	: No data available
Relative density	: No data available
Density	: 1.273 g/cm ³ (25 °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 : Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat
Exposure to moisture


Incompatible materials : Acids
Alcohols
aluminum
Amines
chlorinated solvents
halogenated hydrocarbons
Metals
nitrates
organic solvent
peroxides
Strong oxidizing agents
water
Zinc
Aqueous solutions of this product corrode steel.
This product should not be used in conjunction with trimethylol propane or trimethylol propane-derived products. There is a possibility that bicyclic phosphates or phosphites can be produced as a result of the thermal decomposition of this product in combination with trimethylol propane, trimethylol propane-derived products or their corresponding trimethylol propane alkane homologs. Bicyclic phosphates and phosphites are a class of materials with acute neurotoxic properties which produce characteristic convulsive seizures in test animals.

Hazardous decomposition products : carbon dioxide and carbon monoxide
Nitrogen oxides (NOx)
Oxides of phosphorus
potassium oxide
Sodium oxides
sodium sulfide residue
toxic fumes

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity
Not classified based on available information.

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Product:

Acute inhalation toxicity : Remarks: Excessive heat or contact with acids, water and/or ice, releases sulfur dioxide gas which may be harmful or deadly if inhaled.

Components:

INORGANIC SALT:

Acute oral toxicity : LD L0 (Rat): 4,640 mg/kg
Acute dermal toxicity : LD 50 (Rabbit): > 4,640 mg/kg

Components:

POTASSIUM HYDROXIDE:

Acute oral toxicity : LD 50 (Rat): 333 mg/kg
Acute dermal toxicity : LD 50 (Rabbit): 1,260 mg/kg

2-DIETHYLAMINOETHANOL:

Acute oral toxicity : LD 50 (Rat): 1,320 mg/kgca.
Acute inhalation toxicity : LC 50 (Rat): Approximate 4.6 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Acute dermal toxicity : LD 50 (Guinea pig): ca. 885 mg/kg

Skin corrosion/irritation

Causes severe burns.

Product:

Remarks: Causes severe skin burns and eye damage., The feeling of irritation or pain may be delayed.

Components:

INORGANIC SALT:

Result: Mildly irritating to skin

Components:

POTASSIUM HYDROXIDE:

Result: Corrosive to skin

2-DIETHYLAMINOETHANOL:

Species: Rabbit
Result: Corrosive after 3 minutes to 1 hour of exposure


Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: May cause irreversible eye damage., Solutions may be severely irritating or cause burns.

Components:

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INORGANIC SALT:
 Result: Irritating to eyes

Components:
POTASSIUM HYDROXIDE:
 Result: Corrosive to eyes

2-DIETHYLAMINOETHANOL:
 Species: Rabbit
 Result: Corrosive to eyes

Respiratory or skin sensitisation
 Skin sensitisation: Not classified based on available information.
 Respiratory sensitisation: Not classified based on available information.

Components:
2-DIETHYLAMINOETHANOL:
 Test Type: Maximisation Test (GPMT)
 Species: Guinea pig
 Method: OECD Test Guideline 406
 Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity
 Not classified based on available information.

Components:
2-DIETHYLAMINOETHANOL:
 Genotoxicity in vitro : Test Type: Ames test
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative
 : Test species: Chinese hamster lung cells
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 476
 Result: negative
 GLP: yes
 Genotoxicity in vivo : Test Type: In vivo micronucleus test
 Test species: Mouse
 Method: OECD Test Guideline 474
 Result: negative

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:
2-DIETHYLAMINOETHANOL:
 Target Organs: Respiratory system
 Assessment: May cause respiratory irritation.

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STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

Components:

2-DIETHYLAMINOETHANOL:

Remarks: Central nervous system

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 identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:


Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): 5,487 mg/l
 Exposure time: 96 h
 Test Type: static test

LC 50 (Pimephales promelas (fathead minnow)): 2,745 mg/l
 Exposure time: 96 h
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (Ceriodaphnia dubia)): 2,500 mg/l
 Exposure time: 48 h
 Test Type: static test

POTASSIUM HYDROXIDE:

Toxicity to fish : LC 50 (Western mosquitofish (Gambusia affinis)): 80 mg/l
 Exposure time: 96 h
 Method: Static
 Remarks: Mortality

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2-DIETHYLAMINOETHANOL:

- Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 147 mg/l
 Exposure time: 96 h
 Test Type: static test
 Method: DIN 38412
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 83.6 mg/l
 Exposure time: 48 h
 Test Type: static test
 Method: Directive 67/548/EEC, Annex V, C.2.
- Toxicity to algae : NOEC (Desmodesmus subspicatus (green algae)): 5 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Method: DIN 38412
- EC50 (Desmodesmus subspicatus (green algae)): 44 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Method: DIN 38412
- Toxicity to bacteria : EC20 (activated sludge): > 1,000 mg/l
 Exposure time: 30 min
 Method: OECD Test Guideline 209

Persistence and degradability

2-DIETHYLAMINOETHANOL:

- Biodegradability : Result: Readily biodegradable
 Biodegradation: 95 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301A
 GLP: yes

Bioaccumulative potential

2-DIETHYLAMINOETHANOL:

- Bioaccumulation : Bioconcentration factor (BCF): 0.85
- Partition coefficient: n-octanol/water : log Pow: 0.21 (23 °C)
 Method: OECD Test Guideline 107

Mobility in soil

No data available

Other adverse effects

No data available

Product:

- Additional ecological : No data available

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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.

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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U.S. DOT - ROAD

UN 1719	Caustic alkali liquids, n.o.s. (POTASSIUM HYDROXIDE)	8		III	
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U.S. DOT - RAIL


UN 1719	Caustic alkali liquids, n.o.s. (POTASSIUM HYDROXIDE)	8		III	
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U.S. DOT - INLAND WATERWAYS

UN 1719	Caustic alkali liquids, n.o.s. (POTASSIUM HYDROXIDE)	8		III	
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TRANSPORT CANADA - ROAD

UN 1719	CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)	8		III	
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TRANSPORT CANADA - RAIL

UN	1719	CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)	8	III
----	------	---	---	-----

TRANSPORT CANADA - INLAND WATERWAYS

UN	1719	CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)	8	III
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INTERNATIONAL MARITIME DANGEROUS GOODS

UN	1719	CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)	8	III
----	------	---	---	-----

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1719	Caustic alkali liquid, n.o.s. (POTASSIUM HYDROXIDE)	8	III
----	------	---	---	-----

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1719	Caustic alkali liquid, n.o.s. (POTASSIUM HYDROXIDE)	8	III
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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	1719	LIQUIDOS ALCALINOS CAUSTICOS N.E.P. (POTASSIUM HYDROXIDE)	8	III
----	------	---	---	-----


*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

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CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
POTASSIUM HYDROXIDE	1310-58-3	1000	23998.080154

SARA 311/312 Hazards : Acute Health Hazard

SARA 313 Component(s)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.

California Prop 65 Proposition 65 warnings are not required for this product based on the results of a risk assessment.

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


- TSCA : On TSCA Inventory
- DSL : All components of this product are on the Canadian DSL.
- AUSTR : 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
- KECL : On the inventory, or in compliance with the inventory
- PHIL : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

Inventories

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

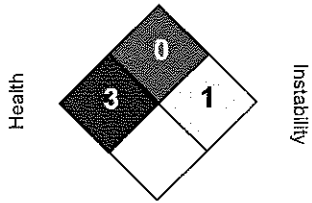
Registration: Trade Secret

Chemical Name	Identification number
INORGANIC SALT	254504001-5294

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SECTION 16. OTHER INFORMATION

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

Full text of H-Statements referred to under sections 2 and 3.

- | | |
|------|--|
| H226 | Flammable liquid and vapor. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |

Sources of key data used to compile the Safety Data Sheet
Key literature references and sources of data
SOLENIS Internal data
SOLENIS 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 MSDS has been prepared by the Solenis Environmental Health and Safety Department.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :
ACGIH : American Conference of Industrial Hygienists

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BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

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

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

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

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act

DOT : Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act

HMIRC : Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System

NFPA : National Fire Protection Association

NIOSH : National Institute for Occupational Safety and Health

OSHA : Occupational Safety and Health Administration

PMRA : Health Canada Pest Management Regulatory Agency

RTK : Right to Know

WHMIS : Workplace Hazardous Materials Information System