according to the Hazardous Products Regulations



## **Avoda PRO Seed Treatment**

Version Revision Date: SDS Number: Date of last issue: -

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#### **SECTION 1. IDENTIFICATION**

Product identifier

Product name Avoda PRO Seed Treatment

Other means of identification

Product code 50003104

**Product Registration Num-**

ber

PCP #35594

Recommended use of the chemical and restrictions on use

Recommended use Fungicide

Seed treatment

**Restrictions on use**Use as recommended by the label.

Manufacturer or supplier's details

<u>Manufacturer</u> FMC Corporation

2929 WALNUT ST

PHILADELPHIA PA 19104

USA

Web: https://ag.fmc.com/ca/en

SDS-Info@fmc.com

<u>Supplier Address</u> FMC of Canada Limited

6755 Mississauga Road, Suite 204

Mississauga, ON L5N 7Y2

Canada

**Emergency telephone** 

For leak, fire, spill or accident emergencies, call:

1 800 / 424-9300 (CHEMTREC - U.S.A.) 1 703 / 741-5970 (CHEMTREC - International) 1 703 / 527-3887 (CHEMTREC - Alternate)

Medical emergency:

U.S.A. & Canada: +1 800 / 331-3148

All other countries: +1 651 / 632-6793 (Collect)

#### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the Hazardous Products Regulations

Eye irritation : Category 2A

Acute toxicity (Inhalation) : Category 4

according to the Hazardous Products Regulations



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Reproductive toxicity : Category 2

**GHS** label elements

Hazard pictograms





Signal Word : WARNING

Hazard Statements : H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H361 Suspected of damaging fertility or the unborn child.

Precautionary Statements : P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

Prevention:

P261 Avoid breathing mist or vapors. P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/

doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ atten-

tion.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents and container to an approved waste

disposal plant.

Other hazards

Toxic to aquatic life with long lasting effects.

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

Substance / Mixture : Mixture

according to the Hazardous Products Regulations



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#### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Tebuconazole	Tebuconazole	107534-96-3	0.29
prothioconazole (ISO)	Prothioconazole	178928-70-6	1.47
metalaxyl (ISO)	metalaxyl (ISO)	57837-19-1	0.59
Ethoxylated tallow al- kylamines	Amines, tallow alkyl, ethoxylated	61791-26-2	5

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Show this material safety data sheet to the doctor in attend-

ance.

Do not leave the victim unattended.

If inhaled : Move to fresh air.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambu-

lance.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Do not induce vomiting without medical advice.

Keep respiratory tract clear.

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

No symptoms known or expected. Causes serious eye irritation.

Harmful if inhaled.

Suspected of damaging fertility or the unborn child.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

Avoid inhalation, ingestion and contact with skin and eyes.

according to the Hazardous Products Regulations



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If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Notes to physician : Appropriate supportive and symptomatic treatment as indicat-

ed by the patient's condition is recommended. There is no

specific antidote.

Treat symptomatically.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Dry chemical, CO2, water spray or regular foam.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

High volume water jet

Do not spread spilled material with high-pressure water

streams.

Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod: :

ucts

Fire may produce irritating, corrosive and/or toxic gases.

Nitrogen oxides (NOx)

Sulfur oxides
Carbon oxides
Hydrogen cyanide
Hydrogen chloride
Sulphuric acid

Chlorinated compounds

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

Firefighters should wear protective clothing and self-contained

breathing apparatus.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec- :

tive equipment and emer-

gency procedures

Use personal protective equipment.

Never return spills in original containers for re-use.

Mark the contaminated area with signs and prevent access to

unauthorized personnel.

Only qualified personnel equipped with suitable protective

equipment may intervene.

For disposal considerations see section 13.

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

according to the Hazardous Products Regulations



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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.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapors/dust.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

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.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

In case of mist, spray or aerosol exposure wear suitable per-

sonal respiratory protection and protective suit.

Hand protection

Material : Wear chemical resistant gloves, such as barrier laminate,

butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

according to the Hazardous Products Regulations



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problems.

Skin and body protection : Impervious clothing

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

Protective measures : Plan first aid action before beginning work with this product.

Always have on hand a first-aid kit, together with proper in-

structions.

Ensure that eye flushing systems and safety showers are

located close to the working place. Wear suitable protective equipment.

Hygiene measures : 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**

Physical state : liquid

Color : red

Odor : characteristic

Odor Threshold : No data available

pH : 7.20 - 8.80 (23 °C)

Concentration: 100 %

Melting point/freezing point : No data available

Initial boiling point and boiling :

range

No data available

Flash point : > 93.4 °C

Evaporation rate : 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

according to the Hazardous Products Regulations



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Relative vapor density : No data available

Relative density : No data available

Density : 1.04 g/cm3 (20 °C)

Bulk density : No data available

Solubility(ies)

Water solubility : dispersible

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

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reac-

tions

No decomposition if stored and applied as directed.

Conditions to avoid : Protect from frost, heat and sunlight.

Avoid extreme temperatures. Avoid formation of aerosol.

Incompatible materials : Avoid strong acids, bases, and oxidizers.

Hazardous decomposition

products

No hazardous decomposition products are known.

according to the Hazardous Products Regulations



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#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Acute toxicity**

Harmful if inhaled.

**Product:** 

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

Acute inhalation toxicity : LC50 (Rat): > 2.6 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Remarks: Highest attainable concentration.

Acute dermal toxicity : LD50 Dermal (Rat): > 5,000 mg/kg

**Components:** 

prothioconazole (ISO):

Acute oral toxicity : LD50 (Rat): > 6,200 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 4.99 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

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

Assessment: The component/mixture is minimally toxic after

single contact with skin.

Ethoxylated tallow alkylamines:

Acute oral toxicity : LD50 (Rat, male): 1,436.7 mg/kg

LD50 (Rat, female): 1,315.7 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 1,260 mg/kg

Skin corrosion/irritation

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

**Product:** 

Species : Rabbit

Assessment : Not classified as irritant

Result : No skin irritation

Remarks : May cause skin irritation in susceptible persons.

according to the Hazardous Products Regulations



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#### Components:

prothioconazole (ISO):

Species : Rabbit

Result : No skin irritation

Ethoxylated tallow alkylamines:

Result : Corrosive after 4 hours or less of exposure

Serious eye damage/eye irritation

Causes serious eye irritation.

**Product:** 

Species : Rabbit

Result : Moderate eye irritation Assessment : Irritating to eyes.

Remarks : May cause irreversible eye damage.

**Components:** 

prothioconazole (ISO):

Species : Rabbit

Result : No eye irritation

Ethoxylated tallow alkylamines:

Result : Irreversible effects on the eye

Respiratory or skin sensitization

Skin sensitization

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

Respiratory sensitization

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

**Product:** 

Species : Guinea pig

Assessment : Does not cause skin sensitization.

Result : Did not cause sensitization on laboratory animals.

**Components:** 

prothioconazole (ISO):

Species : Guinea pig

Method : OECD Test Guideline 406 Result : Not a skin sensitizer.

according to the Hazardous Products Regulations



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Ethoxylated tallow alkylamines:

Result : Does not cause skin sensitization.

Germ cell mutagenicity

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

**Components:** 

prothioconazole (ISO):

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Test system: rat hepatocytes

Result: equivocal

Test Type: in vitro DNA damage and/or repair study

Result: negative

Test Type: gene mutation test

Result: negative

Genotoxicity in vivo : Test Type: chromosome aberration assay

Species: Rat Result: negative

Germ cell mutagenicity -

Assessment

Weight of evidence does not support classification as a germ

cell mutagen.

Ethoxylated tallow alkylamines:

Germ cell mutagenicity -

: Weight of evidence does not support classification as a germ cell mutagen.

Assessment

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

Components:

Carcinogenicity

prothioconazole (ISO):

Species : Mouse, male

Exposure time : 80 w

 Dose
 : 0, 10, 70, 500 mg/kg/d

 NOAEL
 : 10 mg/kg bw/day

 LOAEL
 : 70 mg/kg body weight

Result : negative

Carcinogenicity - Assess-

ment

Animal testing did not show any carcinogenic effects.

Ethoxylated tallow alkylamines:

Carcinogenicity - Assess-

Weight of evidence does not support classification as a car-

ment

cinogen

according to the Hazardous Products Regulations



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#### Reproductive toxicity

Suspected of damaging fertility or the unborn child.

## Components:

prothioconazole (ISO):

Effects on fetal development : Species: Rat

General Toxicity Maternal: NOAEL: 9.7 mg/kg bw/day Developmental Toxicity: NOAEL: 20 mg/kg bw/day

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

Animal testing showed effects on embryo-fetal development at

levels equal to or above those causing maternal toxicity.

Ethoxylated tallow alkylamines:

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

STOT-single exposure

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

#### **Components:**

### Ethoxylated tallow alkylamines:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

### STOT-repeated exposure

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

#### Components:

## Ethoxylated tallow alkylamines:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

#### Repeated dose toxicity

### **Components:**

## prothioconazole (ISO):

Species : Rat
NOAEL : 50 mg/kg
LOAEL : 750 mg/kg
Exposure time : 53 w

Dose : 5, 50, 750 mg/kg
Target Organs : Liver, Kidney, Bladder

according to the Hazardous Products Regulations



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**Aspiration toxicity** 

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

**Further information** 

**Product:** 

Remarks : No data available

**Components:** 

Tebuconazole:

Remarks : No data available

**SECTION 12. ECOLOGICAL INFORMATION** 

**Ecotoxicity** 

**Components:** 

prothioconazole (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.83 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1.3 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 2.18

mg/l

Exposure time: 72 h

EC50 (Skeletonema costatum (Diatom)): 0.046 mg/l

Exposure time: 72 h

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 0.308 mg/l

Exposure time: 21 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 0.56 mg/l

Exposure time: 21 d

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

LD50 (Colinus virginianus (Bobwhite quail)): > 2,000 mg/kg

NOEC (Anas platyrhynchos (Mallard duck)): 78 mg/kg

Exposure time: 21 d

(Apis mellifera (bees)): > 100 μg/bee

Remarks: Contact

according to the Hazardous Products Regulations



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(Apis mellifera (bees)): > 71 µg/bee

Remarks: Oral

Ethoxylated tallow alkylamines:

Toxicity to fish LC50 (Fish): 0.18 - 0.99 mg/l

Exposure time: 96 h

Toxicity to daphnia and other : LC50 (Daphnia): 0.47 mg/l

aquatic invertebrates

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (algae): 0.008 mg/l

Exposure time: 24 h

**Ecotoxicology Assessment** 

Chronic aquatic toxicity Very toxic to aquatic life with long lasting effects.

Persistence and degradability

**Components:** 

prothioconazole (ISO):

Biodegradability Result: Not readily biodegradable.

Ethoxylated tallow alkylamines:

Biodegradability Result: Readily biodegradable.

**Bioaccumulative potential** 

**Components:** 

Tebuconazole:

Partition coefficient: n-

octanol/water

log Pow: 3.7 (20 °C)

prothioconazole (ISO):

Bioaccumulation Bioconcentration factor (BCF): 19

Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: 3.82 (20 °C)

pH: 7

Mobility in soil

**Components:** 

prothioconazole (ISO):

Distribution among environmental compartments

Koc: 1765 ml/g, log Koc: 3.24 Remarks: Low mobility in soil.

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according to the Hazardous Products Regulations



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Stability in soil :

Other adverse effects

Product:

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

**Components:** 

Tebuconazole:

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

**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 chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION** 

International Regulations

**UNRTDG** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Prothioconazole)

Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

**IATA-DGR** 

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(Prothioconazole)

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Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction (passen- : 964

ger aircraft)

Environmentally hazardous : yes

**IMDG-Code** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

964

(Prothioconazole)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

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

Not applicable for product as supplied.

### **Domestic regulation**

**TDG** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Prothioconazole)

Class : 9
Packing group : III
Labels : 9
ERG Code : 171

Marine pollutant : yes(Prothioconazole)

Remarks : Display "inhalation hazard" mark on package in accordance

with TDG 4.23.

## Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

# **SECTION 15. REGULATORY INFORMATION**

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

TCSI : Not in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AIIC : Not in compliance with the inventory

according to the Hazardous Products Regulations



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DSL : This product contains chemical substance(s) exempt from

CEPA DSL Inventory requirements. It is regulated as a pesticide subject to Pest Control Products Act (PCPA) requirements. Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control

product.

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

TECI: Not in compliance with the inventory

#### **Canadian lists**

No substances are subject to a Significant New Activity Notification.

#### **PMRA/PCPA Information**

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label:, Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product

#### **CAUTION**

Causes eye irritation, Avoid contact with skin, eyes and clothing., Harmful if absorbed through the skin., Harmful if inhaled, Avoid breathing dust or spray mist., Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet., Remove and wash contaminated clothing before reuse., Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

#### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for

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Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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#### Prepared by:

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End of Safety Data Sheet