

SAFETY DATA SHEET



FOLIAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: -
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SECTION 1. IDENTIFICATION

Product name : FOLIAR EXTRA

Manufacturer or supplier's details

Company : FMC AGRO LTD (UK)

Address : RECTORS LANE
PENTRE CH5 2DH

Emergency telephone : +506-40003869
911

Medical Emergency Number : Costa Rica - National Center of Poisoning - (506) 2223-1028;
800-INTOXICA
Dominican Republic: DOMINICAN REPUBLIC - Center for
Drug Information and Poisoning - (809) 562-6601 Ext. 1801
El Salvador - Rosales National Hospital - (503) 2231-9262
Guatemala - Center of Toxicological Information and Assis-
tance - (502) 2251-3560 / 2232-0735
Honduras - Hospital School - (504) 232-6105
Nicaragua - National Center of Toxicology - (505) 2289-4700
ext. 1294 cel. 8755-0983
Panama Center of Research and Information on Medications
and Toxicology (507) 523-4948

Recommended use of the chemical and restrictions on use

Recommended use : Crop nutrition

Restrictions on use : Use as recommended by the label.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Oxidizing liquids : Category 3

Skin corrosion/irritation : Category 1

Serious eye damage/eye irri-
tation : Category 2A

Carcinogenicity : Category 2

Long-term (chronic) aquatic
hazard : Category 3

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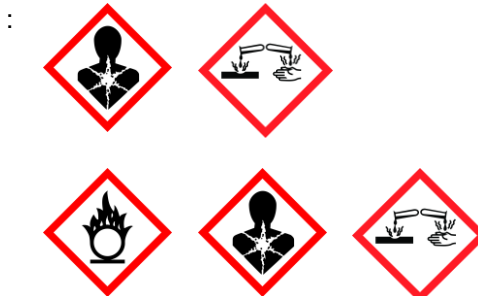
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GHS label elements

Hazard pictograms



Signal Word

: DANGER
DANGER

Hazard Statements

: H314 Causes severe skin burns and eye damage.
H351 Suspected of causing cancer.
H272 May intensify fire; oxidizer.
H314 Causes severe skin burns and eye damage.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

: **Prevention:**

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep away from clothing and other combustible materials.

P264 Wash skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a

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POISON CENTER/ doctor.
P305 + P351 + P338 + P310 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.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

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

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P405 Store locked up.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
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potassium dihydrogenorthophosphate	7778-77-0	≥ 5 -< 10
magnesium nitrate	10377-60-3	≥ 5 -< 10
phosphoric acid	7664-38-2	$\geq 2,5$ -< 3
Citric acid, monohydrate	5949-29-1	≥ 1 -< 5
trisodium nitrilotriacetate	5064-31-3	≥ 1 -< 2,5
manganese dinitrate	10377-66-9	$\geq 0,25$ -< 1
copper dinitrate	3251-23-8	$\geq 0,0025$ -< 0,025

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
If unconscious, place in recovery position and seek medical advice.
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 ambulance.
- In case of skin contact : If on clothes, remove clothes.
If on skin, rinse well with water.
Wash off immediately with plenty of water for at least 15 minutes.
Wash contaminated clothing before re-use.
Get medical attention if irritation develops and persists.
- 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.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
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 : Causes serious eye irritation.
Suspected of causing cancer.
Causes severe burns.
- 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.
If potential for exposure exists refer to Section 8 for specific

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personal protective equipment.

Notes to physician : 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 circumstances and the surrounding environment.
- Unsuitable extinguishing media : Do not spread spilled material with high-pressure water streams.
High volume water jet
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Ammonia
Fire may produce irritating, corrosive and/or toxic gases.
- Specific extinguishing methods : 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.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.
- Special protective equipment for fire-fighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
If it can be safely done, stop the leak.
Do not touch or walk through the spilled material.
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.
- Accidental Release Measures : 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.

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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 : Neutralize with chalk, alkali solution or ammonia.
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Keep away from combustible material.

Advice on safe handling : Do not breathe vapors/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.
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.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : Do not store near acids.

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
phosphoric acid	7664-38-2	TWA	1 mg/m ³	CR OEL
		STEL	3 mg/m ³	CR OEL
		TWA	1 mg/m ³	ACGIH
		STEL	3 mg/m ³	ACGIH
manganese dinitrate	10377-66-9	TWA (Respirable fraction)	0,02 mg/m ³ (Manganese)	CR OEL
Further information: Not classifiable as a human				

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		carcinogen		
		TWA (Inhalable fraction)	0,1 mg/m3 (Manganese)	CR OEL
		Further information: Not classifiable as a human carcinogen		
		TWA (Inhalable particulate matter)	0,1 mg/m3 (Manganese)	ACGIH
		TWA (Respirable particulate matter)	0,02 mg/m3 (Manganese)	ACGIH

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- 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 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 instructions.
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
- Form : liquid
- Color : brown

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Odor	:	characteristic
Odor Threshold	:	No data available
pH	:	1,50 - 2,50 Concentration: 100 %
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	1,21 - 1,22
Density	:	No data available
Bulk density	:	No data available
Solubility(ies) Water solubility	:	soluble
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

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Explosive properties	:	No data available
Oxidizing properties	:	Non-oxidizing

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 reactions	:	No decomposition if stored and applied as directed.
Conditions to avoid	:	Avoid extreme temperatures. Avoid formation of aerosol.
Incompatible materials	:	Avoid strong acids, bases, and oxidizers.
Hazardous decomposition products	:	irritating gases

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

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

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5.000 mg/kg Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5.000 mg/kg Method: Calculation method

Components:

potassium dihydrogenorthophosphate:

Acute oral toxicity	:	LD50 (Rat, female): > 2.000 mg/kg Method: OECD Test Guideline 425
Acute inhalation toxicity	:	LC0 (Rat, male and female): > 0,83 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Remarks: no mortality
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2.000 mg/kg Method: OECD Test Guideline 402

magnesium nitrate:

Acute oral toxicity	:	LD50 (Rat, female): > 2.000 mg/kg
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Method: OECD Test Guideline 423

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 402

phosphoric acid:

Acute oral toxicity : LD50 (Rat, female): 2.600 mg/kg
Method: OECD Test Guideline 423

Citric acid, monohydrate:

Acute oral toxicity : LD50 Oral (Mouse, male and female): 5.400 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

trisodium nitrilotriacetate:

Acute oral toxicity : LD50 (Rat, female): 1.470 mg/kg

Acute inhalation toxicity : LC0 (Rat, male): 2,307 mg/l
Exposure time: 4 d
Test atmosphere: dust/mist
Remarks: no mortality

Acute dermal toxicity : LD0 (Rabbit, male and female): 2.000 mg/kg
Remarks: no mortality

manganese dinitrate:

Acute oral toxicity : LD50 Oral (Rat, female): > 300 mg/kg
Method: OECD Test Guideline 420

Skin corrosion/irritation

Causes severe burns.

Product:

Remarks : Not expected to be irritating to skin.

Remarks : Extremely corrosive and destructive to tissue.

Components:

potassium dihydrogenorthophosphate:

Species : Rabbit
Exposure time : 4 h
Result : No skin irritation

magnesium nitrate:

Species : Rabbit

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Method	:	OECD Test Guideline 404
Result	:	No skin irritation
Remarks	:	Based on data from similar materials

phosphoric acid:

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

Citric acid, monohydrate:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

trisodium nitrilotriacetate:

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

manganese dinitrate:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Corrosive after 1 to 4 hours of exposure

copper dinitrate:

Method	:	OECD Test Guideline 431
Result	:	Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Assessment	:	Irritating to eyes.
Remarks	:	May cause irreversible eye damage.
Remarks	:	May cause irreversible eye damage.

Components:

potassium dihydrogenorthophosphate:

Species	:	Rabbit
Result	:	No eye irritation

magnesium nitrate:

Species	:	Rabbit
Result	:	Eye irritation
Method	:	OECD Test Guideline 405

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phosphoric acid:

Result	: Irreversible effects on the eye
Remarks	: Based on skin corrosivity

Citric acid, monohydrate:

Species	: Rabbit
Result	: Irritation to eyes, reversing within 21 days
Method	: OECD Test Guideline 405

trisodium nitrilotriacetate:

Species	: Rabbit
Result	: Irritation to eyes, reversing within 21 days
Method	: OECD Test Guideline 405

Species	: Rabbit
Result	: No eye irritation
Method	: OECD Test Guideline 405

manganese dinitrate:

Species	: Bovine cornea
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:

Remarks	: Not expected to cause skin sensitisation.
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Components:

potassium dihydrogenorthophosphate:

Test Type	: Local lymph node assay (LLNA)
Routes of exposure	: Intradermal
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: negative

magnesium nitrate:

Test Type	: Local lymph node assay (LLNA)
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: Does not cause skin sensitization.

trisodium nitrilotriacetate:

Test Type	: Buehler Test
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Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitization.

manganese dinitrate:

Test Type	:	Local lymph node assay (LLNA)
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	Does not cause skin sensitization.

copper dinitrate:

Test Type	:	Maximization Test
Routes of exposure	:	Dermal
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitization.

Germ cell mutagenicity

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

Components:

potassium dihydrogenorthophosphate:

Genotoxicity in vitro	:	Test Type: Micronucleus test Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 487 Result: negative
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	:	Test Type: gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 490 Result: negative
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magnesium nitrate:

Genotoxicity in vitro	:	Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative
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	:	Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials
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	:	Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials
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Germ cell mutagenicity - Assessment	:	In vitro tests did not show mutagenic effects
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phosphoric acid:

Genotoxicity in vitro : Test Type: reverse mutation assay
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative

Citric acid, monohydrate:

Genotoxicity in vitro : Test Type: Micronucleus test
Method: OECD Test Guideline 487
Result: positive

Test Type: reverse mutation assay
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Test Type: chromosome aberration assay
Species: Rat (male)
Application Route: Oral
Method: OECD Test Guideline 475
Result: negative

Test Type: Rodent Dominant Lethal Assay
Species: Rat (male and female)
Application Route: Oral
Method: Regulation (EC) No. 440/2008, Annex, B.22
Result: negative

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

trisodium nitrilotriacetate:

Genotoxicity in vitro : Test Type: reverse mutation assay
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

Test Type: Cytogenetic assay
Species: Mouse (male)
Application Route: Oral
Result: negative

Germ cell mutagenicity - : Weight of evidence does not support classification as a germ

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Assessment cell mutagen.

manganese dinitrate:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Test Type: reverse mutation assay
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse (female)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

copper dinitrate:

Genotoxicity in vitro : Test Type: reverse mutation assay
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay
Species: Rat (male)
Application Route: Oral
Method: OECD Test Guideline 486
Result: negative

Test Type: Micronucleus test
Species: Mouse (male and female)
Application Route: Oral
Method: Mutagenicity (micronucleus test)
Result: negative

Carcinogenicity

Suspected of causing cancer.

Components:**Citric acid, monohydrate:**

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

trisodium nitrilotriacetate:

Species : Rat, male and female

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Application Route	: Oral
Exposure time	: 104 weeks
Dose	: 0, 9, 92, 921 mg/kg/d
	: 9 mg/kg bw/day
LOAEL	: 92 mg/kg bw/day
Result	: positive
Carcinogenicity - Assessment	: Limited evidence of carcinogenicity in animal studies

manganese dinitrate:

Species	: Rat, male
Application Route	: Oral
Exposure time	: 103 weeks
Dose	: 60, 200, 615 mg/kg body weight
	: 615 mg/kg body weight
Result	: negative
Carcinogenicity - Assessment	: Weight of evidence does not support classification as a carcinogen

Reproductive toxicity

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

Components:

potassium dihydrogenorthophosphate:

Effects on fertility	: Species: Rat, male and female
	Application Route: Ingestion
	General Toxicity Parent: NOAEL: 1.000 mg/kg body weight
	General Toxicity F1: NOAEL: 1.000 mg/kg body weight
	Method: OECD Test Guideline 422

magnesium nitrate:

Effects on fertility	: Species: Rat, male and female
	Application Route: Oral
	Dose: 0, 250, 750, and 1,500 milligram per kilogram
	Duration of Single Treatment: 28 d
	General Toxicity Parent: NOAEL: > 1.500 mg/kg body weight
	Method: OECD Test Guideline 422
	Result: negative
	Remarks: Based on data from similar materials
Effects on fetal development	: Species: Rat
	Application Route: Oral
	Dose: 0, 250, 750, and 1,500 milligram per kilogram
	Duration of Single Treatment: 28 d
	General Toxicity Maternal: NOAEL: > 1.500 mg/kg body weight
	Developmental Toxicity: NOAEL: > 1.500 mg/kg body weight
	Method: OECD Test Guideline 422
	Result: negative
	Remarks: Based on data from similar materials

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Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

phosphoric acid:

Effects on fertility : Test Type: reproductive and developmental toxicity study
Species: Rat, male and female
Application Route: Ingestion
General Toxicity Parent: NOAEL: 500 mg/kg body weight
General Toxicity F1: NOAEL: 500 mg/kg body weight
Method: OECD Test Guideline 422
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development
Species: Mouse
Application Route: Ingestion
General Toxicity Maternal: NOAEL: 370 mg/kg body weight
Developmental Toxicity: NOAEL: 370 mg/kg body weight
Result: negative
Remarks: Based on data from similar materials

Citric acid, monohydrate:

Effects on fetal development : Test Type: reproductive and developmental toxicity study
Species: Mouse
Application Route: Oral
Dose: 0, 2.41, 11.2, 52.0, 241 mg/k
Duration of Single Treatment: 6 - 15 d
Teratogenicity: NOAEL: > 241 mg/kg body weight

Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Oral
Dose: 0, 2.95, 13.7, 63.6, 295 mg/k
Duration of Single Treatment: 6 - 15 d
Teratogenicity: NOAEL: > 295 mg/kg body weight

Test Type: reproductive and developmental toxicity study
Species: Rabbit
Application Route: Oral
Dose: 0, 4.25, 19.75, 91.70, 425 mg
Duration of Single Treatment: 6 - 15 d
Teratogenicity: NOAEL: > 425 mg/kg body weight

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

trisodium nitrilotriacetate:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
Dose: 90 and 450 mg/kg bw/day
General Toxicity Parent: LOAEL: 450 mg/kg body weight
Result: negative

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Effects on fetal development : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Oral
Dose: 90 and 450 mg/kg bw/day
General Toxicity Maternal: LOAEL: 450 mg/kg bw/day
Developmental Toxicity: NOAEL: 450 mg/kg bw/day
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

manganese dinitrate:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Application Route: inhalation (dust/mist/fume)
Dose: 0, 5, 10, 20 µg/L
General Toxicity Parent: NOEC: 0,020 mg/l
General Toxicity F1: NOAEC: 0,020 mg/l
Method: OECD Test Guideline 416
Result: negative

Effects on fetal development : Species: Rat
Application Route: inhalation (dust/mist/fume)
General Toxicity Maternal: NOAEL: 0,005 mg/L
Embryo-fetal toxicity.: NOAEL: 0,015 mg/L
Method: OECD Test Guideline 414

STOT-single exposure

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

Components:

trisodium nitrilotriacetate:

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:

magnesium nitrate:

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

Citric acid, monohydrate:

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

manganese dinitrate:

Assessment : The substance or mixture is classified as specific target organ

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toxicant, repeated exposure, category 2.

Repeated dose toxicity

Components:

potassium dihydrogenorthophosphate:

Species	: Dog, male and female
NOAEL	: 322,88 mg/kg
Application Route	: Ingestion
Exposure time	: 90

magnesium nitrate:

Species	: Rat, male and female
NOAEL	: > 1.500 mg/kg
Application Route	: Oral
Exposure time	: 28d
Dose	: 0, 250, 750, 1,500 mg/kg/day
Method	: OECD Test Guideline 422
Remarks	: Based on data from similar materials

phosphoric acid:

Species	: Rat, male and female
NOAEL	: 250 mg/kg
Application Route	: Oral - gavage
Exposure time	: 42 - 54 d
Method	: OECD Test Guideline 422

Citric acid, monohydrate:

Species	: Rat
NOAEL	: 4.000 mg/kg
LOAEL	: 8.000 mg/kg
Application Route	: Oral
Exposure time	: 10d
Dose	: 2, 4, 8, 16 g/kg bw/day

Species	: Mouse
NOAEL	: 1.000 mg/kg
LOAEL	: 2.000 mg/kg
Application Route	: Oral
Exposure time	: 10d
Dose	: 1, 2, 4, 8 g/kg bw/day

trisodium nitrilotriacetate:

Species	: Rat, male
NOAEL	: 9 mg/kg bw/day
Application Route	: Oral - feed
Exposure time	: 28 d
Dose	: 0, 9 mg/kg ppm

Species	: Rat, male and female
LOAEC	: 0,342 mg/l

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Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 28 d
Dose : 0.0102, 0.2131, 0.3422 mg/l

Species : Rabbit
NOAEL : 50 mg/kg bw/day
Application Route : Dermal
Exposure time : 28 or 91 d
Dose : 0, 50 mg/kg

manganese dinitrate:

Species : Rat, male
NOAEL : 1700 mg/kg bw/day
Application Route : Oral
Exposure time : 13weeks
Dose : 110 to 1700 mg/kg

Species : Rat, male and female
NOAEL : 20 µg/L air
Application Route : inhalation (dust/mist/fume)
Dose : 5, 10, 20 µg/L air
Method : OPPTS 870.3800

Aspiration toxicity

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

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

potassium dihydrogenorthophosphate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203

NOEC (Oncorhynchus mykiss (rainbow trout)): 100 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l
aquatic invertebrates
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

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- NOEC (*Daphnia magna* (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): > 100 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
- NOEC (*Desmodesmus subspicatus* (green algae)): > 100 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC50 (activated sludge): 1.000 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209
- magnesium nitrate:**
- Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials
- LC50 (*Poecilia reticulata* (guppy)): 1.378 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials
- LC50 (*Cyprinus carpio* (Carp)): 95 - 102 mg/l
Exposure time: 48 h
Test Type: semi-static test
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 39 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials
- Toxicity to algae/aquatic plants : EC50 (diatoms): > 1.700 mg/l
Exposure time: 10 d
Test Type: static test
Remarks: Based on data from similar materials
- Toxicity to fish (Chronic toxicity) : NOEC (*Pimephales promelas* (fathead minnow)): 58 mg/l
Exposure time: 30 d
Test Type: flow-through test
Remarks: Based on data from similar materials
- NOEC (*Pimephales promelas* (fathead minnow)): 157 mg/l
Exposure time: 32 d
Test Type: flow-through test

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Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

phosphoric acid:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 3 - 3,25 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Citric acid, monohydrate:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 440 mg/l
Test Type: static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 1.535 mg/l
Exposure time: 24 h
Test Type: static test

Toxicity to algae/aquatic plants : NOEC (Scenedesmus quadricauda (Green algae)): 425 mg/l
Exposure time: 8 d
Test Type: static test

Toxicity to microorganisms : NOEC (Pseudomonas putida): > 10.000 mg/l
Exposure time: 16 h
Test Type: Cell multiplication inhibition test

NOEC (Protozoa): 325 mg/l
Exposure time: 72 h

Toxicity to terrestrial organisms : NOEC (Birds): > 4 mg/kg
Exposure time: 14 d

LD50 (Birds): > 4 mg/kg
Exposure time: 14 d

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trisodium nitrilotriacetate:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 114 mg/l
Exposure time: 96 h
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Gammarus fasciatus (freshwater shrimp)): 98 mg/l
Exposure time: 96 h
Test Type: flow-through test
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 91,5 mg/l
Exposure time: 72 h
Method: EU Method C3
- NOEC (Desmodesmus subspicatus (green algae)): 1,43 mg/l
Exposure time: 72 h
Method: EU Method C3
- Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 54 mg/l
Exposure time: 229 d
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Gammarus fasciatus (freshwater shrimp)): 9,3 mg/l
Exposure time: 147 d
Test Type: flow-through test
- Toxicity to microorganisms : (Protozoa): > 400 mg/l
Exposure time: 48 h
Test Type: Growth inhibition

manganese dinitrate:

- Toxicity to fish : LC50 (Fish): 55,26 - 67,71 mg/l
Exposure time: 96 h
Test Type: static test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : LOEC (Lemna minor (duckweed)): 64,94 mg/l
Exposure time: 7 d
Method: OECD Test Guideline 221
Remarks: Based on data from similar materials
- EC10 (Lemna minor (duckweed)): 23,37 mg/l
Exposure time: 7 d
Method: OECD Test Guideline 221
Remarks: Based on data from similar materials
- Toxicity to fish (Chronic toxicity) : see user defined free text (Oncorhynchus mykiss (rainbow trout)): 2,9 mg/l
Exposure time: 28 d
Test Type: semi-static test
- Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 0,02 mg/l

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aquatic invertebrates (Chronic toxicity) : Exposure time: 20 d
Test Type: static test

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to microorganisms : NOEC (activated sludge): 560 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

copper dinitrate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0,0384 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 0,0098 mg/l
Exposure time: 48 h
Test Type: static test

LC50 (Ceriodaphnia dubia (water flea)): 0,014 mg/l
Exposure time: 48 h
Test Type: semi-static test

Toxicity to algae/aquatic plants : NOEC (Raphidocelis subcapitata (freshwater green alga)): 0,0157 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Macrocystis pyrifera (brown algae)): 0,0102 mg/l
Exposure time: 19 d

EC10 (Phaeodactylum tricornutum): 0,0029 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Phaeodactylum tricornutum): 0,0057 mg/l
Exposure time: 72 h
Method: ISO 10253

NOEC (Skeletonema costatum (marine diatom)): 0,00754 mg/l
Exposure time: 72 h
Method: ISO 10253

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to microorganisms : NOEC (activated sludge): 0,23 - 0,45 mg/l
Exposure time: 30 d
Test Type: Growth inhibition

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NOEC (Tetrahymena pyriformis): 3,563 mg/l
Exposure time: 48 h
Test Type: Growth inhibition

EC50 (activated sludge): 0,0025 mg/l
Exposure time: 100 d
Test Type: Growth inhibition

Persistence and degradability

Components:

phosphoric acid:

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

Citric acid, monohydrate:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301B

Result: Readily biodegradable.
Method: OECD Test Guideline 301E

Result: Inherently biodegradable.
Method: OECD Test Guideline 302B

trisodium nitrilotriacetate:

Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 14 d
Method: OECD Test Guideline 301E

Bioaccumulative potential

Components:

Citric acid, monohydrate:

Bioaccumulation : Bioconcentration factor (BCF): 3,2
Method: QSAR

Partition coefficient: n-octanol/water : log Pow: -1,55

trisodium nitrilotriacetate:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -13,2 (25 °C)
Method: QSAR

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Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

Components:

phosphoric acid:

Additional ecological information : Harmful effects on aquatic organisms also due to pH shift.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.
Packaging that is not properly emptied must be disposed of as the unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Special precautions for user

Not applicable

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SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety data sheet has been prepared in accordance with Costa Rican legislation RTCR 481:2015 and RTCR 478:2015.

Law on Narcotics, Psychotropic Substances, Drugs of : Not applicable
Unauthorized Use, Money-Laundering and Related
Activities.

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
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

SECTION 16. OTHER INFORMATION

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Further information

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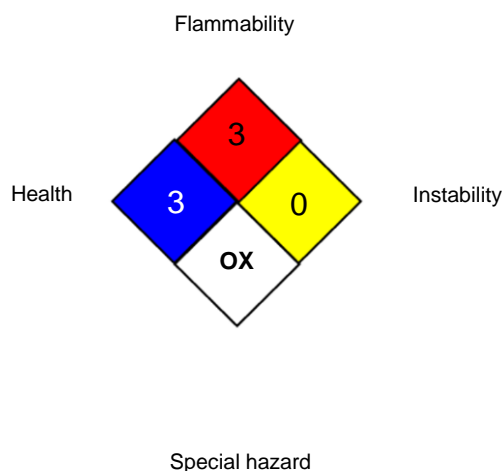
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NFPA:



HMIS® IV:

HEALTH	*	3
FLAMMABILITY		1
PHYSICAL HAZARD		1

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

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
CR OEL : Costa Rica. Maximum allowable occupational exposure limits in the workplace.

ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
CR OEL / TWA : Time weighted average 8-hr value
CR OEL / STEL : Short term exposure limit

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 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, Evalua-

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tion, 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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