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SECTION 1. IDENTIFICATION

Product identifier

Trade name : GLB TOTAL TAB

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet Innovative Water Care, LLC 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States of America (USA) EHSProductSafetyTeam@solenis.com	Emergency telephone number 1-800-654-6911 (Outside the USA:1-423-780-2970) Product Information 1-800-511-6737 (Outside the USA:1-423-780-2347)
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SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral) : Category 4
 Serious eye damage : Category 1
 Reproductive toxicity : Category 1B
 Specific target organ toxicity : Category 3 (Respiratory system)
 - single exposure


GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H302 Harmful if swallowed.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.
 H360 May damage fertility or the unborn child.

Precautionary statements : **Prevention:**
 P201 Obtain special instructions before use.

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P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust.
P264 Wash skin thoroughly after handling.
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:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
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 + 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.
P370 + P378 In case of fire: Use water spray to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (%)
TRICHLORO-S-TRIAZINETRIONE	87-90-1	Ox. Sol. 2; H272 Acute Tox. 4; H302 Eye Irrit. 2A; H319 STOT SE 3; H335	>= 90 - <= 100
ALUMINUM SULFATE	10043-01-3	Met. Corr. 1; H290 Eye Dam. 1; H318	>= 1.5 - < 5
CUPRIC SULFATE	7758-99-8	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 1.5 - < 5
BORIC ACID	10043-35-3	Repr. 1B; H360FD	>= 0.1 - < 0.5

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Actual concentration is withheld as a trade secret

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 unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
- If swallowed : Obtain medical attention.
Do NOT induce vomiting.
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 : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)
Excessive levels of phosphorus can cause low blood calcium, with tetany and convulsions.
Harmful if swallowed.
Causes serious eye damage.
May cause respiratory irritation.
May damage fertility or the unborn child.
- Notes to physician : Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water

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- Unsuitable extinguishing media : Dry extinguishers containing ammonium compounds.
- Specific hazards during firefighting : May intensify fire, oxidizer.
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Chlorine
nitrogen chloride
nitrogen compounds
toxic fumes
- Further information : Use water to cool containers exposed to fire.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
Avoid dust formation.
Avoid breathing dust.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.
- 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 : Sweep up and shovel using a clean broom or shovel.
Shovel material into clean dry containers.
All spills of this product should be treated as contaminated.
Contaminated product may initiate a chemical reaction that may spontaneously ignite any combustible material present, resulting in a fire.
Avoid getting spilled product wet.
Do not seal disposal containers tightly. Immediately remove all product in disposal containers to an isolated area outdoors.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Keep away from combustible material.
Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Avoid dust formation.
Provide sufficient air exchange and/or exhaust in work rooms.
Do not breathe vapours/dust.

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Do not smoke.
 Container hazardous when empty.
 Avoid exposure - obtain special instructions before use.
 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.
 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.

Store in original container.


Further information on storage stability : Do not store next to a heat source, in direct sunlight, or elevated temperatures. Do not store where the daily average temperature exceeds prescribed storage temperature for 7 consecutive days. Prevent ingress of humidity and moisture into container or package. Keep containers tightly closed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ALUMINUM SULFATE	10043-01-3	TWA	2 mg/m ³ (Aluminium)	OSHA P0
		TWA	2 mg/m ³ (Aluminium)	NIOSH REL
CUPRIC SULFATE	7758-99-8	TWA	1 mg/m ³ (Copper)	NIOSH REL
BORIC ACID	10043-35-3	TWA (Inhalable particulate matter)	2 mg/m ³ (Borate)	ACGIH
		STEL (Inhalable particulate matter)	6 mg/m ³ (Borate)	ACGIH

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if

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applicable) or below levels that cause known, suspected or apparent adverse effects.

Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
Dust safety masks are recommended when the dust concentration is more than 10 mg/m³.

Hand protection

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

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

Skin and body protection : Wear as appropriate:
Safety shoes
Dust impervious protective suit
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Wear resistant gloves (consult your safety equipment supplier).

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : tablet


Colour : white

Odour : chlorine-like

Odour Threshold : No data available

pH : 2.4 - 2.7
Concentration: 1 %

Melting point/freezing point : Not applicable

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Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : Not applicable

Flammability (solid, gas) : 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

Vapour pressure : Not applicable

Relative vapour density : No data available

Relative density : No data available

Density : 2.100 g/cm³

Solubility(ies)

Water solubility : 12 g/l (77 °F / 25 °C)

Solubility in other solvents : No data available

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

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.


Molecular weight : 232.41 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under recommended storage conditions.

May be unstable at temperatures above 225 Deg. C (437 Deg. F).

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Possibility of hazardous reactions : Product will not undergo hazardous polymerization.
 NFPA Oxidizer Class: Meets the criteria of an NFPA Class 1 Oxidizer.

Conditions to avoid : excessive heat
 Heat, flames and sparks.
 Exposure to air.
 Exposure to moisture

Keep away from heat, flame, sparks and other ignition sources.

Incompatible materials : Do not allow product to come in contact with other materials, including e.g. other pool treatment products, acids, organic materials, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc. A chemical reaction with such substances can cause a fire.

If product is exposed to small amounts of water, it can react violently to produce heat and toxic gases and spatter.

Hazardous decomposition products : Chlorine
 nitrogen chloride
 nitrogen compounds
 toxic fumes

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed.

Components:

TRICHLORO-S-TRIAZINETRIONE:

Acute oral toxicity : LD50 (Rat): 490 mg/kg

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

ALUMINUM SULFATE:

Acute oral toxicity : LD50 (Rat, female): > 2,000 - < 5,000 mg/kg

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

CUPRIC SULFATE:

Acute oral toxicity : LD L0 (Human): 50 mg/kg

LD50 (Rat): 481 - 482 mg/kg

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Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

BORIC ACID:

Acute oral toxicity : LD50 (Rat): > 2,660 mg/kg
Remarks: No mortality observed at this dose.

Acute inhalation toxicity : LC50 (Rat): > 2.0 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

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

Skin corrosion/irritation

Not classified based on available information.

Components:**ALUMINUM SULFATE:**

Species : Rabbit
Result : Not irritating to skin

CUPRIC SULFATE:

Species : Rabbit
Result : Not irritating to skin

BORIC ACID:

Result : Mildly irritating to skin

Serious eye damage/eye irritation

Causes serious eye damage.

Product:


Remarks : May cause irreversible eye damage.

Components:**TRICHLORO-S-TRIAZINETRIONE:**

Species : Rabbit
Result : Severely irritating to eyes

ALUMINUM SULFATE:

Species : Rabbit
Result : Corrosive to eyes

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Method : OECD Test Guideline 405

CUPRIC SULFATE:

Species : Rabbit
 Result : Corrosive to eyes

BORIC ACID:

Result : Possibly irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

CUPRIC SULFATE:

Test Type : Maximisation Test
 Species : Guinea pig
 Method : OECD Test Guideline 406

Germ cell mutagenicity

Not classified based on available information.

Components:


ALUMINUM SULFATE:

Genotoxicity in vitro : Test Type: Ames test
 Test system: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative
 GLP: yes

Test Type: Ames test
 Test system: Escherichia coli
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative
 GLP: yes

Test Type: In vitro mammalian cell gene mutation test
 Test system: mouse lymphoma cells
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 476
 Result: negative
 GLP: yes

Test Type: Micronucleus test

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Test system: Human lymphocytes
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 487
 Result: negative
 GLP: yes

CUPRIC SULFATE:

Genotoxicity in vitro : Test Type: Ames test
 Test system: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Result: negative

Carcinogenicity

Not classified based on available information.

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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

Reproductive toxicity

May damage fertility or the unborn child.

Components:

BORIC ACID:

Reproductive toxicity - Assessment : Clear evidence of adverse effects on development, based on animal experiments., Clear evidence of adverse effects on sexual function and fertility, based on animal experiments.

STOT - single exposure

May cause respiratory irritation.

Components:

TRICHLORO-S-TRIAZINETRIONE:

Target Organs : Respiratory Tract
 Assessment : May cause respiratory irritation.

STOT - repeated exposure


Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

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Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 1; Very toxic to aquatic life.

Chronic aquatic toxicity : Chronic aquatic toxicity Category 1; Very toxic to aquatic life with long lasting effects.

Components:

TRICHLORO-S-TRIAZINETRIONE:

Toxicity to fish : LC50 (*Lepomis macrochirus* (Bluegill sunfish)): 0.23 mg/l
End point: mortality
Exposure time: 96 h
GLP: yes

LC50 (*Oncorhynchus mykiss* (rainbow trout)): 0.24 mg/l
End point: mortality
Exposure time: 96 h
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0.17 mg/l
Exposure time: 48 h

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 1; Very toxic to aquatic life.


Chronic aquatic toxicity : Chronic aquatic toxicity Category 1; Very toxic to aquatic life with long lasting effects.

ALUMINUM SULFATE:

Toxicity to fish : LC50 (*Pimephales promelas* (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203

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

Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): > 100 mg/l
End point: Growth inhibition

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Exposure time: 72 h
 Test Type: static test
 Method: OECD Test Guideline 201
 GLP: yes

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
 Exposure time: 180 min
 Test Type: Static
 Method: OECD Test Guideline 209
 GLP: yes
 Remarks: Based on similar product.

CUPRIC SULFATE:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.193 mg/l
 End point: mortality
 Exposure time: 96 h
 Test Type: flow-through test
 GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.117 mg/l
 End point: Immobilization
 Exposure time: 48 h
 Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): 0.0618 mg/l
 Exposure time: 72 h

 NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.0345 mg/l
 Exposure time: 21 h

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

Ecotoxicology Assessment


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

Persistence and degradability

Components:

TRICHLORO-S-TRIAZINETRIONE:

Biodegradability : Result: Not readily biodegradable.
 Biodegradation: 2 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301D

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ALUMINUM SULFATE:

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

CUPRIC SULFATE:

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

Bioaccumulative potential

Components:

TRICHLORO-S-TRIAZINETRIONE:

Partition coefficient: n-octanol/water : log Pow: 0.94

ALUMINUM SULFATE:

Bioaccumulation : Species: Atlantic salmon (*Salmo salar*)
 Bioconcentration factor (BCF): 76 - 190
 Exposure time: 60 d
 Method: Flow through

Species: Atlantic salmon (*Salmo salar*)
 Bioconcentration factor (BCF): 362
 Exposure time: 45 d
 Concentration: 0.264 mg/l
 Method: Flow through

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.
 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 chemical or used container.

Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.

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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 Regulations

IATA-DGR

UN number : UN 3077
 Proper shipping name : Environmentally hazardous substance, solid, n.o.s.
 (TRICHLOROISOCYANURIC ACID, COPPER SULPHATE)
 Class : 9
 Packing group : III
 Packing instruction (cargo aircraft) : 956
 Packing instruction (passenger aircraft) : 956

IMDG-Code

UN number : UN 3077
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
 N.O.S. (TRICHLOROISOCYANURIC ACID, COPPER SULPHATE)
 Class : 9
 Packing group : III
 EmS Code : F-A, S-F
 Marine pollutant : no

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

Not applicable for product as supplied.

National Regulations

49 CFR

Not regulated as a dangerous good

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

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
CUPRIC SULFATE	7758-99-8	10	657

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SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)
 Reproductive toxicity
 Serious eye damage or eye irritation
 Specific target organ toxicity (single or repeated exposure)

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

CUPRIC SULFATE	7758-99-8	>= 1 - < 5 %
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US State Regulations

Massachusetts Right To Know

symclosene	87-90-1
ALUMINUM SULFATE	10043-01-3
copper sulphate pentahydrate	7758-99-8

Pennsylvania Right To Know

symclosene	87-90-1
ALUMINUM SULFATE	10043-01-3
copper sulphate pentahydrate	7758-99-8

New Jersey Right To Know


symclosene	87-90-1
POLYPHOSPHORIC ACIDS, SODIUM SALTS	68915-31-1
ALUMINUM SULFATE	10043-01-3
copper sulphate pentahydrate	7758-99-8

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

- TCSI : On the inventory, or in compliance with the inventory
- TSCA : Exempt
- AICC : On the inventory, or in compliance with the inventory
- DSL : Exempt
- ENCS : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory

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PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TSCA list

Exempt- This product is exempt from Significant New Use Rule requirements. See information under Biocides for product registration information.”

Exempt-This product is exempt from TSCA 12(b) requirements. See information under Biocides for product registration information.”

Biocides

EPA Reg. # 1258-1342-7364

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Danger, Corrosive., Causes irreversible eye damage., Causes eye and skin burns., May be fatal if inhaled or absorbed through skin., Harmful if swallowed., Irritating to nose and throat.

SECTION 16. OTHER INFORMATION

Further information


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Full text of H-Statements

H272 : May intensify fire; oxidizer.
H290 : May be corrosive to metals.
H302 : Harmful if swallowed.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H335 : May cause respiratory irritation.
H360FD : May damage fertility. May damage the unborn child.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Met. Corr. : Corrosive to metals
Ox. Sol. : Oxidizing solids
Repr. : Reproductive toxicity
STOT SE : Specific target organ toxicity - single exposure
ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits
OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated)

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values)

ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour
workday during a 40-hour workweek
OSHA P0 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

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 provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any

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