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SECTION 1. IDENTIFICATION

Product identifier

Trade name : LEISURE TIME BROMINE TABLETS

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Pesticide

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

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

Oxidizing solids : Category 3

Acute toxicity (Oral) : Category 4

Skin corrosion : Category 1B

Serious eye damage : Category 1

Skin sensitisation : Category 1


Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H272 May intensify fire; oxidizer.

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H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

Precautionary statements :

Prevention:

P210 Keep away from heat.
P220 Keep/ Store away from clothing/ combustible materials.
P221 Take any precaution to avoid mixing with combustibles.
P260 Do not breathe 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.
P272 Contaminated work clothing must not be allowed out of the workplace.
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.
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/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a 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.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
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

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|  SOLENIS Strong bonds. Trusted solutions. | | Page: 3 |
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Components

| Chemical name | CAS-No. | Classification | Concentration (%) |
|---|------------|---|-------------------|
| 1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN | 16079-88-2 | Ox. Sol. 2; H272 Acute Tox. 4; H302 Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 | >= 50 - < 60 |
| DICHLORO-1,3 5,5-DIMETHYLHYDANTOIN | 118-52-5 | Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Irrit. 2A; H319 Skin Sens. 1; H317 | >= 20 - < 30 |
| DICHLORO-1,3 5-ETHYL-5-METHYLHYDANTOIN | 89415-87-2 | Ox. Sol. 1; H271 Acute Tox. 4; H302 Skin Corr. 1; H314 Eye Irrit. 2A; H319 Skin Sens. 1; H317 | >= 15 - < 20 |

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.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Wash contaminated clothing before re-use.
If on clothes, remove clothes.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
- If swallowed : Get medical attention immediately.
Do NOT induce vomiting.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.

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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)
 Harmful if swallowed.
 May cause an allergic skin reaction.
 Causes serious eye damage.
 May cause respiratory irritation.
 Causes severe burns.

Notes to physician : Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Water spray
 Carbon dioxide (CO2)
 Dry chemical

Unsuitable extinguishing media : High volume water jet


Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.
 If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.
 Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Bromine
 Chlorine
 hydrogen bromide
 hydrogen chloride
 Nitrogen oxides (NOx)
 Sodium oxides

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
 Use a water spray to cool fully closed containers.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.


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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 : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
 Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Avoid dust formation.
 Take measures to prevent the build up of electrostatic charge.
 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.
 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.
- Further information on : No decomposition if stored and applied as directed.

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storage stability

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|------------------------------------|----------|----------------------------------|---|-----------|
| DICHLORO-1,3 5,5-DIMETHYLHYDANTOIN | 118-52-5 | TWA | 0.2 mg/m3 | ACGIH |
| | | STEL | 0.4 mg/m3 | ACGIH |
| | | TWA | 0.2 mg/m3 | NIOSH REL |
| | | ST | 0.4 mg/m3 | NIOSH REL |
| | | TWA | 0.2 mg/m3 | OSHA Z-1 |
| | | TWA | 0.2 mg/m3 | OSHA P0 |
| | | STEL | 0.4 mg/m3 | OSHA P0 |

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

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:
Chemical resistant apron
Safety shoes
Dust impervious protective suit
Flame-resistant clothing
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).

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Discard gloves that show tears, pinholes, or signs of wear.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : tablet

Colour : off-white

Odour : pungent

Odour Threshold : No data available

pH : 3.6 (77.0 °F / 25.0 °C)
Concentration: 10.0 g/l

Melting point/freezing point : 248 - 298 °F / 120 - 148 °C

Boiling point/boiling range : Not applicable

Flash point : > 200.01 °F / > 93.34 °C

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 : No data available

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Solubility(ies)
 Water solubility : 5.4 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 : Not applicable

Viscosity, kinematic : No data available

Oxidizing properties : The substance or mixture is classified as oxidizing with the category 3.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.


Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.
 NFPA Oxidizer Class: Meets the criteria of an NFPA Class 2 Oxidizer.

Conditions to avoid : Keep away from heat, flame, sparks and other ignition sources.

Incompatible materials : Organic materials
 oxidizable substances
 Strong acids
 strong bases
 Strong oxidizing agents
 strong reducing agents
 water

Hazardous decomposition products : hydrogen bromide
 hydrogen chloride
 Nitrogen oxides (NOx)
 Bromine
 Chlorine
 Hydrogen chloride gas
 nitrogen oxides
 Sodium oxides

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SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed.

Components:

1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN:

Acute oral toxicity : LD50 (Rat, male and female): 929 mg/kg

Acute inhalation toxicity : LC 50 (Rat, male and female): 0.168 mg/l
 Test atmosphere: dust/mist
 Method: OPPTS 870.1300

Acute dermal toxicity : LD50 (Rat): > 2 g/kg
 Method: OPPTS 870.1200
 Assessment: No adverse effect has been observed in acute dermal toxicity tests.
 Remarks: Information given is based on data obtained from similar substances.

DICHLORO-1,3 5,5-DIMETHYLHYDANTOIN:

Acute oral toxicity : LD50 (Rat): 542 mg/kg
 LD50 (Rabbit): 1,520 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 20 g/kg

DICHLORO-1,3 5-ETHYL-5-METHYLHYDANTOIN:

Acute oral toxicity : LD50 (Rat, male and female): 579 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 20,000 mg/kg
 Remarks: Information given is based on data obtained from similar substances.

LD50 (Rat): > 2,000 mg/kg
 Assessment: Not classified as acutely toxic by dermal absorption under GHS.
 Remarks: Information given is based on data obtained from similar substances.

Skin corrosion/irritation

Causes severe burns.

Product:

Result : Causes burns.

Remarks : May cause skin irritation in susceptible persons.
 Causes severe skin burns and eye damage.

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Components:**1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN:**

Species : Rabbit
Result : Corrosive to skin

DICHLORO-1,3 5,5-DIMETHYLHYDANTOIN:

Species : Rabbit
Result : Corrosive

DICHLORO-1,3 5-ETHYL-5-METHYLHYDANTOIN:

Species : Rabbit
Result : Corrosive to skin
Remarks : Information given is based on data obtained from similar substances.

Species : Rabbit
Result : Severe skin irritation
Remarks : Information given is based on data obtained from similar substances.

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:**1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN:**

Species : Rabbit
Result : Corrosive to eyes

DICHLORO-1,3 5,5-DIMETHYLHYDANTOIN:

Species : Rabbit
Result : Severely irritating to eyes

DICHLORO-1,3 5-ETHYL-5-METHYLHYDANTOIN:


Result : Severely irritating to eyes
Remarks : Information given is based on data obtained from similar substances.

Respiratory or skin sensitisation**Skin sensitisation**

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

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Product:

Remarks : May cause allergic skin reaction.

Components:

1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN:

Species : Guinea pig

DICHLORO-1,3 5,5-DIMETHYLHYDANTOIN:

Species : Guinea pig

Remarks : Information given is based on data obtained from similar substances.

DICHLORO-1,3 5-ETHYL-5-METHYLHYDANTOIN:

Germ cell mutagenicity

Not classified based on available information.

Components:


1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN:

Genotoxicity in vitro : Test Type: Ames test
 Test system: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Method: OPPTS 870.5100
 Result: negative
 Remarks: Information given is based on data obtained from similar substances.

Test Type: In vitro mammalian cell gene mutation test
 Test system: mouse lymphoma cells
 Metabolic activation: with and without metabolic activation
 Method: OPPTS 870.5300
 Result: negative
 Remarks: Information given is based on data obtained from similar substances.

Test Type: in vitro assay
 Test system: Chinese hamster ovary cells
 Method: OPPTS 870.5375
 Result: negative
 Remarks: Information given is based on data obtained from similar substances.

Test Type: unscheduled DNA synthesis assay
 Method: OPPTS 870.5550
 Result: negative
 Remarks: Information given is based on data obtained from similar substances.

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DICHLORO-1,3 5,5-DIMETHYLHYDANTOIN:

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

Test Type: Chromosome aberration test in vitro
 Test system: Chinese hamster ovary cells
 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

Not classified based on available information.

STOT - single exposure

May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

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.

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Components:

1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.17 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Daphnia magna (Water flea)): 0.1 mg/l
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 14 mg/l

DICHLORO-1,3 5,5-DIMETHYLHYDANTOIN:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.58 mg/l
Exposure time: 96 h
Test Type: static test

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.75 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.47 mg/l
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) : 1

DICHLORO-1,3 5-ETHYL-5-METHYLHYDANTOIN:

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Persistence and degradability

Components:

1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN:


Biodegradability : Remarks: Readily biodegradable

Bioaccumulative potential

Components:

DICHLORO-1,3 5,5-DIMETHYLHYDANTOIN:

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

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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.
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.
Send to a licensed waste management company.

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

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

SECTION 14. TRANSPORT INFORMATION


International Regulations

IATA-DGR

UN number : UN 3085
 Proper shipping name : Oxidizing solid, corrosive, n.o.s. (HALOGENATED HYDANTOINS)
 Class : 5.1
 Subsidiary risk : 8
 Packing group : III
 Packing instruction (cargo aircraft) : 563
 Packing instruction (passenger aircraft) : 559
 Marine pollutant : yes

IMDG-Code

UN number : UN 3085
 Proper shipping name : OXIDIZING SOLID, CORROSIVE, N.O.S. (HALOGENATED HYDANTOINS)
 Class : 5.1

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Subsidiary risk : 8
Packing group : III
EmS Code : F-A, S-Q
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

UN number : UN 3085
Proper shipping name : Oxidizing solid, corrosive, n.o.s. (HALOGENATED HYDANTOINS)
Class : 5.1
Subsidiary risk : 8
Packing group : III
ERG Code : 140
Marine pollutant : no

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.
49CFR/IMDG: Packages with inner packaging less than 5L or 5kg and gross weight under 30kg may ship under the Limited Quantity Exception.

SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

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 : Oxidiser (liquid, solid or gas)
Acute toxicity (any route of exposure)
Respiratory or skin sensitization
Skin corrosion or irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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US State Regulations

Massachusetts Right To Know

formaldehyde 50-00-0

Pennsylvania Right To Know

formaldehyde 50-00-0
 formaldehyde 50-00-0
 formaldehyde 50-00-0

New Jersey Right To Know

formaldehyde 50-00-0
 formaldehyde 50-00-0
 formaldehyde 50-00-0
 formaldehyde 50-00-0

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 : All substances listed as active on the TSCA inventory
- AIIC : On the inventory, or in compliance with the inventory
- DSL : All components of this product are on the Canadian DSL
- ENCS : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

TSCA list


The following substance(s) is/are subject to a Significant New Use Rule:
 1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN 16079-88-2

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:
 1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN 16079-88-2

Biocides

EPA Reg. # 1258-1404-41760

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

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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, Highly Corrosive., Causes irreversible eye damage and skin burns., May be fatal if swallowed., Irritating to nose and throat.

SECTION 16. OTHER INFORMATION

Further information

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Full text of H-Statements

H271 : May cause fire or explosion; strong oxidizer.
H272 : May intensify fire; oxidizer.
H302 : Harmful if swallowed.
H314 : Causes severe skin burns and eye damage.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Ox. Sol. : Oxidizing solids
Skin Corr. : Skin corrosion
Skin Sens. : Skin sensitisation
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 values)
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
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
NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA : 8-hour time weighted average
OSHA P0 / STEL : Short-term exposure limit
OSHA Z-1 / 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 -

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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 other materials or in any process, unless specified in the text. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

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