

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

Product name Pool Logic Think Clear Brominating Tablets

AS 8424T-96 PL Product id

Revision date 11/09/2014 Revision: 1

Identification of the substance & the company

Chemical name Bromo-chloro-5,5-dimethylhydantoin

Synonym(s) BCDMH, Halobrom

Chemical formula C 5 H 6 BrCIN 2 O 2

Halogenated hydantoin **Chemical family**

Molecular weight 241.5

Type of product and use Swimming pools and Spas & Hot Tubs disinfectant

ICL-IP America Inc. **Supplier**

> 95 MacCorkle Ave. SW, South Charleston, WV 25303.

Toll Free Number: 1-800-811-2327

Emergency Telephone Chemtrec: (800) 424-9300

Medical: (800) 420-9236

Hazards identification

Emergency overview White to off-white tablet with faint halogenous odour

Corrosive

Causes irreversible eye damage and skin burns

Irritating to nose and throat May be fatal if inhaled

Harmful if absorbed through skin or swallowed

Oxidizer

GHS classification Acute Tox. 4, H302 Harmful if swallowed

Skin Corr. 1B, H314 Causes severe skin burns and eye damage

Skin Sens. 1, H317 May cause an allergic skin reaction

Aguatic Acute 1, H400 - Very toxic to aquatic life



DANGER Signal Word

{ Page 1 of 9 }



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Hazard statements H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

EUH031 - Contact with acids liberates toxic gas

Precautionary statements P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection 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 - IF INHALED: Remove person to fresh air and keep comfortable for

breathing

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

P310 - Immediately call a POISON CENTER or doctor/physician

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention P362 + P364 - Take off all contaminated clothing and wash it before reuse

P391 - Collect spillage

P264 - Wash hands thoroughly after handling

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

P272 - Contaminated work clothing should not be allowed out of the workplace

P405 - Store locked up

P501 - Dispose of contents/container in accordance with national and international

regulations

NFPA Ratings (Scale 0-4) Health = 3, Fire = 0, Reactivity = 1. Special Hazard Warning: OXIDIZER.

HMIS Ratings (Scale 0-4) Health = 3, Fire = 0, Reactivity = 1.

3. Composition / information on ingredients

Components	CAS No.	Weight %
Bromochloro-5,5-dimethylhydantoin	32718-18-6	96



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4. First-aid measures

Eye contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove

contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call

a poison control center or doctor for treatment advice.

Skin contact Take off contaminated clothing. Rinse skin immediately with plenty of water for

15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation Move person to fresh air. If person is not breathing, call 911 or an ambulance,

then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a

poison control center or doctor for further treatment advice.

Ingestion Call poison control center, or doctor immediately for treatment advice.

Have person sip a glass of water if able to swallow.

Do not induce vomiting unless told to do so by the poison control center or doctor.

Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, acute or delayed

- Eye Contact Causes severe eye damage.

- Skin contact Causes severe skin burns

May cause skin sensitization

- Inhalation Shortness of breath, headache and nausea.

Irritant to upper respiratory tract.

Ingestion Harmful if swallowed.

Note to physician Corrosive

No specific antidote.

In case of ingestion DO NOT induce vomiting. Treat symptomatically and supportively.

Probable mucosal damage may contraindicate the use of gastric lavage.

5. Fire - fighting measures

Suitable extinguishing media

Dry powder, carbon dioxide or water spray. Water may be ineffective. In case of exothermic decomposition and appearance of smoke, water should be used to

suppress it.



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Extinguishing media not to be

used

Do not use dry chemical extinguisher containing ammonia compounds.

Unusual fire and explosion

hazards

Forms explosive mixtures with combustible, organic or other easily oxidizable materials. When heated to decomposition, may release poisonous and corrosive fumes. Dust may form a weak explosive mixture with air (class St1), but is not

sensitive to ignition from electrostatic discharges.

Fire fighting procedure Cool containers with water spray. In closed stores, provide fire-fighters with

self-contained breathing apparatus in positive pressure mode.

6. Accidental release measures

Personal precautions Evacuate area. Use respirator with combined filter (inorganic gas and dust),

gloves, chemical safety goggles and body covering clothes. If material is decomposing, use self-contained breathing apparatus and a fully encapsulated

suit.

Methods for cleaning up Sweep up, place in a suitable container and hold for waste disposal. Avoid raising

dust. Ventilate area and wash spill site after material pickup is complete.

Environmental precautions Prevent entry into sewers and watercourses

7. Handling and storage

Handling Keep containers tightly closed.

Storage Keep away from all sources of ignition. Recommended storage temperature below

30°C. For transportation purposes it is possible to store at temperatures up to 50°C. Store in a dry, well-ventilated area Store away from incompatible materials

(see "materials to avoid").

8. Exposure controls / personal protection

Exposure Limits:

Components	ACGIH-TLV Data	OSHA (PEL) Data
Bromochloro-5,5-dimethylhydantoin 32718-18-6	Not determined	Not determined

Manufacturer's TLV-Ceiling Recommendation

0.1 mg/m³



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Ventilation requirementsUse local exhaust as necessary, especially under dusty conditions. Ventilation must be sufficient to maintain atmospheric concentration below recommended

exposure limit.

Personal protective equipment:

- Respiratory protection Respirator with combined filter (inorganic gas and dust).

- Hand protection Neoprene gloves

- Eye protection Chemical safety goggles

- Skin and body protection Body covering clothes and boots

Hygiene measuresDo not eat, smoke or drink where material is handled, processed or stored. Wash

hands thoroughly after handling and before eating or smoking. Safety shower and

eye bath should be provided.

9. Physical and chemical properties

Appearance White to off-white tablet with faint halogenous odour

Melting point/range Not applicable (decomposes)

Boiling point/range Not applicable Flash point Not applicable

Evaporation rate (ether=1) Not applicable under standard conditions

Flammable/Explosion limits Not available

Vapor pressure 9.35x10(-3) Pa (25°C)

Vapor density Not applicable under standard conditions

Solubility:

- Solubility in water 0.22 g/100ml at 25°C

- Solubility in other solvents Benzene: 2.5 g/100g at 25°C

Partition coefficient

(n-octanol/water) Kow = <1 (pH 5-9)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available
>160°C
Not applicable

Specific gravity 1.8-2.0

Explosive properties Dust may form a weak explosive mixture with air (class St1), but is considered

insensitive to ignition from electrostatic discharges.

Oxidising properties Not sufficient for classification as oxidizer (Method A17 & UN Test O.1)

Particle size Not available



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10. Stability and reactivity

Reactivity Combustible materials. Oxidizing agents. Bases.

Stability Stable under normal conditions

Possibility of hazardous Contact with combustible materials may initiate decomposition of the material and

reactions emission of smoke.

Conditions to avoid Exposure to moisture. Heating above decomposition temperature.

Materials to avoid COMBUSTIBLE ORGANIC MATERIALS. Bases. Oxidizing agents.

Hazardous decomposition

products CO, HBr, Cl2, NOx, HCl, CO2

11. Toxicological information

Likely Routes of Exposure Skin

Eye contact Inhalation

Acute toxicity:

- Rat oral LD50 929 mg/kg

- Rat inhalation LC50 1.1 mg/l/4 hour (powder)

- Dermal irritation (rabbit) Corrosive

Dermal sensitization Sensitizer

Chronic toxicity Prolonged skin contact may cause sensitization

Mutagenicity Mutagenic by the Ames Test

Mutagenic in the mouse lymphoma L5178Y test system. Non genotoxic in an in-vivo micronucleus test in mice

Non genotoxic in an in-vivo liver unscheduled DNA synthesis (USD) assay

Carcinogenicity Not included in NTP 13th Report on Carcinogens

Not classified by IARC

Aspiration hazard Not expected to occur



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12. Ecological information

Aquatic toxicity:

- 96 Hour-LC50, Fish 1.2 mg/l (Eastern oyster, Acute flow through)

1.9 mg/l (Mysid shrimp, Acute flow through)

0.4 mg/l (Rainbow trout, Static)0.46 mg/l (Bluegill sunfish, Static)

1.6 mg/l (Sheepshead minnow, Acute flow through)

- 48 hour-LC50, Daphnia magna 0.75 mg/l (Static)

Avian toxicity:

Oral LD50, Bobwhite quail
 Dietary LC50, Mallard duck
 Dietary LC50, Bobwhite quail
 5620 ppm
 5620 ppm

Persistence and degradability BCDMH and the main degradation product DMH are biodegradable and do not

persist in the environment

Bioaccumulative potential Based on low Kow values, i.e less than 1, BCDMH would not be predicted to

significantly accumulate in aquatic organisms, or absorb to organic material in soil

or sediment.

Mobility in soil There will be no exposure of BCDMH to soil. The main degradation product DMH

is mobile in soil.

13. Disposal considerations

Waste disposal Dispose of in approved landfill sites or an approved incinerator. Crush and bury

empty containers. Avoid access to streams, lakes or ponds. Observe all federal, state and local environmental regulations when disposing of this material.

Disposal of PackagingCrush and bury empty containers.

Do NOT throw into public waste disposal site. Avoid contact with organic materials

and moisture. See conditions to avoid (Section 10)



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14. Transportation information

DOT UN number 1479

Proper shipping name: Oxidizing Solid, n.o.s. (Bromo-Chloro-5,5-DimethylHydantoin) Class: 5.1 - Oxidizing substances

Label: OXIDIZER (5.1)
Packing Group II

Marking: Marine Pollutant

15. Regulatory information

USA This product is registered under FIFRA

(CAS #16079-88-2)

TSCA: EPA Number P-94-34

Subject to reporting under SNUR (Significant New Use Rule) -any use, 60 CFR

11037

- EPA Registration no. 42177-74

- Emergency overview in DANGER accordance to EPA Master Label Corrosive

Causes irreversible eye damage and skin burns

Eye contact may cause loss of vision

Irritating to nose and throat

Harmful if absorbed through skin or swallowed This pesticide is toxic to fish and aquatic organisms.

Strong oxidizing agent

- SARA 313 This product does not contain a chemical listed at or above de minimis

concentrations

- SARA (311, 312) This product is a hazardous chemical under 29CFR 1910.1200, and categorized

as an immediate and delayed health, and reactivity physical hazard

- Waste Classifications Not listed under CERCLA. If this product becomes a waste, it meets the criteria of

a hazardous waste as defined under 40 CFR 261 and would have the following

EPA hazardous waste number:D001.

EU Reported in EINECS

EC No. 251-171-5



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Japan ENCS No. 5-6368

New Zealand Inventory Listed in NZIoC

China

- China inventory Listed in IECSC

Philippines Listed in PICCS

16. Other information

This data sheet contains changes from the previous version in section(s) 2, 4, 5, 6, 8, 9, 10, 11, 15, 16

All sections reformatted in accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

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End of safety data sheet