

Revision: 10/24/2023 Supersedes Revision: 07/24/2015

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

210914 **Product Code:** AFCO 9310 **Product Name: Biocide** Category: **AFCO Company Name:**

> 550 Development Ave. Chambersburg, PA 17201

Emergency Contact: (800)424-9300 CHEMTREC:

Information: EPA #: 833

Intended Use: A biocide used to control bacteria, algae, slime, and fungi.

2. HAZARDS IDENTIFICATION

Acute Toxicity: Oral, Category 4 Skin Corrosion/Irritation, Category 1B

Skin Sensitization, Category 1

Aquatic Toxicity (Chronic), Category 1







GHS Signal Word: Danger

GHS Hazard Phrases: H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H410 - Very toxic to aquatic life with long lasting effects.

GHS Precaution Phrases: P264 - Wash hands thoroughly after handling.

> P270 - Do not eat, drink or smoke when using this product. P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

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

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

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

P362+364 - Take off contaminated clothing and wash it before reuse.

P273 - Avoid release to the environment.

P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated **GHS Response Phrases:**

clothing. Rinse skin with water/shower.

P310 - Immediately call a POISON CENTER or doctor/physician.

P363 - Wash contaminated clothing before reuse.

P305+351+338 - 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.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P310 - Immediately call a POISON CENTER or doctor/physician.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P311 - Call a POISON CENTER or doctor/physician.

P391 - Collect spillage.

GHS Storage and Disposal

regulations. Phrases:

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



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P405 - Store locked up.

Hazard Rating System:

HEALTH 3
FLAMMABILITY 0
PHYSICAL 1
PPE F

HMIS:

Potential Health Effects (Acute and Chronic):

Inhalation: Irritating to respiratory system.

Skin Contact: May cause sensitization. May cause skin irritation. **Eye Contact:** May cause temporary or permanent eye damage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS # Ingredient(s) Concentration

32718-18-6 Bromochloro-5,5-dimethylimidazolidine-2,4-dione 96.0 -99.5 %

4. FIRST AID MEASURES

Emergency and First Aid

Procedures:

In Case of Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. Call 911 or emergency

medical service.

In Case of Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated

clothing and shoes. Immediately call a POISON CENTER or doctor/physician.

In Case of Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and

lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

In Case of Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a

physician or poison control center immediately. Never give anything by mouth to an

unconscious person.

Note to Physician: No specific antidote. Treat symptomatically and supportively. Probable mucosal damage

may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

Suitable Extinguishing Media: Dry chemical or CO2. In case of exothermic decomposition and appearance of smoke,

water should be used to suppress it.

Fire Fighting Instructions: Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal

decomposition products.

Flammable Properties and

d Dusts or fumes may form explosive mixtures in air. Forms explosive mixtures with

Hazards: combustible, organic or other easily oxidizable materials.



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6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate protective clothing to minimize contact with skin. Use respirators and components tested and approved under appropriate government standards such as

NIOSH (US) or CEN (EU). Avoid release to the environment.

containers closed when not in use.

Environmental Precautions: Steps To Be Taken In Case Material Is Released Or

Evacuate area. Sweep up or absorb material, then place into a suitable clean, dry, closed

container for disposal. Ventilate the area. Wash area with soap and water.

Spilled:

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:

Avoid prolonged or repeated contact with eyes, skin, or clothing. Wash thoroughly after handling. Avoid breathing in dust from product. Use with adequate ventilation. Keep

Precautions To Be Taken in Storing:

Keep away from sources of ignition. Store at temperatures not exceeding 50°C/120°F.

Keep container tightly closed. Store in a cool dry place. Store away from incompatible

material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ACGIH TWA CAS# **Other Limits Components (Chemical Name) OSHA TWA** No data. No data. No data. 32718-18-6 Bromochloro-5,5-dimethylimidazolidine

-2.4-dione

Respiratory Equipment

(Specify Type): requirements must be followed whenever workplace conditions warrant a respirator's use.

Eye Protection: Chemical safety goggles.

Protective Gloves: Impervious gloves.

Other Protective Clothing: Lab coat and/or apron.

Engineering Controls Local exhaust ventilation may be necessary to control any air contaminants to within their (Ventilation etc.):

TLVs during the use of this product. Facilities storing or utilizing this material should be

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2

equipped with an eyewash facility and a safety shower.

Work/Hygienic/Maintenance

Wash hands before breaks and immediately after handling the product.

Practices:



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [] Gas [] Liquid [X] Solid

Appearance and Odor: White to Off-White, Tablet.

faint halogenous odor.

Melting Point:No data.Boiling Point:No data.

Decomposition Temperature: > 160.00 C (320.0 F)

Autoignition Pt:No data.Flash Pt:No data.

Explosive Limits: LEL: No data. UEL: No data.

Specific Gravity (Water = 1): 1.8 - 2.0

Vapor Pressure (vs. Air or 9.35x10(-3) PA at 25.0 C (77.0 F)

mm Hg):

Vapor Density (vs. Air = 1): No data. Evaporation Rate: No data.

Solubility in Water: 0.22g/100mL at 25.0 C (77.0 F)

Solubility Notes: Benzene: 2.5g/100g at 25C

Percent Volatile: No data.

10. STABILITY AND REACTIVITY

Reactivity: Oxidizing agents, Bases, combustible materials.

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability: heating to decomposition. Moisture.

Incompatibility - Materials To Avoid: Oxidizing agents, Bases.

Hazardous Decomposition or Nitrogen oxides, hydrogen chloride. hydrogen bromide. chlorine. Carbon

Byproducts: oxides.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Product will not undergo polymerization.

Reactions:



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11. TOXICOLOGICAL INFORMATION

Toxicological Information: No data available.

CAS# 32718-18-6:

Carcinogenicity: Acute toxicity, LD50, Oral, Rat, 929.0 MG/KG.

Result:

Behavioral: Somnolence (general depressed activity).

Gastrointestinal:Other changes.

Acute toxicity, LC50, Inhalation, Rat, 1.100 MG/L, 4 H.

Result:

Skin and Appendages: Other: Hair.

NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

No data available.

Results of PBT and vPvB

CAS# 32718-18-6:

assessment:

LC50, Rainbow Trout (Oncorhynchus mykiss), 0.400 MG/L, 96 H.

Result: Age Effects.

LC50, Water Flea (Daphnia magna), 0.750 MG/L, 48 H.

Result: Age Effects.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

RCRA: It is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR 261.20-24).

Disposal: Biocide or Pesticide wastes are acutely hazardous. Improper disposal or excess product or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Biocide/Pesticide or Environmental Control Agency, or the Hazardous Waste representative at your nearest

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Oxidizing solid, n.o.s.(Bromo-Chloro-5,5-DimethylHydantoin)

EPA Regulation Office for guidance

DOT Hazard Class: 5.1 OXIDIZER

UN/NA Number: UN1479 Packing Group: III



LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Oxidizing solid, n.o.s.(Bromo-Chloro-5,5-DimethylHydantoin)

UN Number: 1479 Packing Group: III

Hazard Class: 5.1 - OXIDIZER TDG Classification:



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MARINE TRANSPORT (IMDG/IMO):

Oxidizing solid, n.o.s.(Bromo-Chloro-5,5-DimethylHydantoin) **IMDG/IMO Shipping Name:**

Ш **UN Number:** 1479 **Packing Group:**

Hazard Class: 5.1 - OXIDIZER

IMDG MFAG Number:

IMDG EMS Page: Marine Pollutant: Yes

AIR TRANSPORT (ICAO/IATA):

Oxidizing solid, n.o.s.(Bromo-Chloro-5,5-DimethylHydantoin) ICAO/IATA Shipping Name:

UN Number: 1479 **Packing Group:** Ш

5.1 - OXIDIZER **Hazard Class:**

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS# Ingredient(s) S. 302 (EHS) S. 313 (TRI) S. 304 RQ

32718-18-6 Bromochloro-5,5-dimethylimidazolidine-2,4-dione No No No

This material meets the EPA [X] Yes [] No Acute (immediate) Health Hazard 'Hazard Categories' defined [X] Yes [] No Chronic (delayed) Health Hazard

for SARA Title III Sections [] Yes [X] No Fire Hazard

311/312 as indicated: [] Yes [X] No Sudden Release of Pressure Hazard

[] Yes [X] No Reactive Hazard

Canadian DSL **Canadian NPRI** Canadian IDL CAS# Ingredient(s)

32718-18-6 Bromochloro-5,5-dimethylimidazolidine-2,4-dione No Nο No

CAS# Ingredient(s) **International Regulatory Lists**

32718-18-6 Bromochloro-5,5-dimethylimidazolidine-2,4-dione

Canadian WHMIS Classification:

No data available.

Regulatory Information: US Regulatory information:

Primary EPA Registration #: 88714-4

This product is subject to registration under FIFRA. All ingredients are reported in the EPA TSCA Inventory.

Canada Regulatory information:

This product complies to the Pest Control Products Act.and is considered exempt from

from WHMIS classification.

Registration No.: 31033 Pest Control Products Act.

Canadian regulations: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the SDS contains all

the information required by the CPR.

16. OTHER INFORMATION

03/24/2015 **Revision Date:**

Additional Information About No data available.

This Product:

Company Policy or

The information accumulated herein is believed to be accurate based on the information Disclaimer: provided, although no guarantee or warranty, either expressed or implied is made as to

the accuracy or completeness of this information, whether originating with this company



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or not. Recipients are advised to confirm in advance of need that the information is correct, applicable and suitable to their circumstances. The conditions or methods of handling, storage, use and disposal of the product and container are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage or use of this information or product. If the product is used as a component in another product, this information may not be applicable.

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