



Safety Data Sheet

Quesbrom

Section 1 Identification

Trade Name: Quesbrom **Date Prepared:** 04/05/2016
Product Identification: RM-H510
Synonyms: bromochloro-5,5-dimethylimidazolidin e-2,4-dione **CAS No:** 32718-18-6
Product Use Description:
Microbiocide

Details of the supplier of the safety data sheet

QUES Industries Inc. **Phone:** (800) 340-8989
5420 West 140th Street
BrookPark, OH 44142 US

Emergency telephone number

Infotrac (800) 535-5053 (US & Canada)
(352) 323-3500

Section 2 Hazards Identification

GHS Classification: Oxidizing Solid Category 2
Acute Toxicity Oral Category 4
Skin Corrosion/Irritation Category 1B
Serious Eye Damage/Irritation Category 1
Aquatic Toxicity Chronic Category 1

GHS Labels:



Oxidizing Irritant Environmental H Corrosive

Signal Word: Danger

Hazard Statements:

- H272** May intensify fire
- 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

Precautionary Statements:

Prevention

- P210** Keep away from heat, open flames and hot surfaces. — No smoking.
- P220** Store away from combustible materials.
- P260** Do not breathe dust.
- P264** Wash skin thoroughly after handling.
- P270** Do not eat, drink or smoke when using this product.
- P273** Avoid release to the environment.
- P280** Wear protective gloves, protective clothing and eye protection.

Response

- P301 + P312** IF SWALLOWED: call a POISON CENTER or physician IF you feel unwell.
- P301 + P330 + P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353** IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse SKIN with water.



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P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position 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 physician.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

Storage

P405 Store locked up.

Disposal

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

Hazards Not Otherwise Classified (HNOC):

None.

Additional Information:

None.

Section 3 Composition

Chemical Name	Common Name/Synonym	CAS #	%
bromochloro dimethylimidazolidine dione		32718-18-6	96.0 - 99.5

Section 4 First Aid

General:

Move out of dangerous area. Perform first aid measures as indicated. Seek medical attention and show this safety data sheet to attending physician.

Inhalation:

Move to fresh air and keep at rest in a position comfortable for breathing. If breathing difficulty occurs or persists seek medical attention. If not breathing give artificial respiration and seek immediate medical attention.

Skin Contact:

Immediately flush exposed skin with water for at least 15 minutes while removing contaminated clothing and/or shoes. Seek immediate medical attention.

Eye Contact:

Immediately flush eyes with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. Check for and remove any contact lenses if easy to do. Seek immediate medical attention.

Ingestion:

Rinse mouth with water. Do not induce vomiting. Seek immediate medical attention.

Most important symptoms and effects both acute and delayed:

No information available.

Indication of any immediate medical attention and special treatment needed:

No information available.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media:

Use carbon dioxide, dry chemical fire. Use water spray to cool fire exposed containers.

Unsuitable Extinguishing Media:

No information available.

Specific Hazards Developing From the Chemical:

In fire conditions harmful fumes and vapor can be generated.

Precautions for Firefighters:

No information available.

Firefighting Instructions:



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No information available.

Protection During Firefighting:

Wear full protective gear and full face pressure demand self-contained breathing apparatus.

Other Information:

No additional information available.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Avoid direct contact with skin, eyes and clothing. Avoid inhalation of mist, vapor or dust. Wear appropriate personal protective equipment as outlined in Section 8 of this SDS.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Contain spilled material and prevent run-off onto ground or into water sources or sewers.

Methods and material for containment and clean up:

Sweep up spilled material and place in suitable container for disposal. Dispose of spilled/collected material in accordance with all federal, state and local regulations.

Section 7 Handling and Storage

Precautions for Safe Handling:

Avoid contact with skin and eyes. Avoid inhalation of mist, vapor and dust. Ensure adequate ventilation. Do not eat, drink or smoke while handling. Wear appropriate personal protective equipment as outlined in Section 8 of this SDS.

Conditions for Safe Storage, including Incompatibilities:

Store in original container. Keep container tightly closed. Store at room temperature (50-90 F) in a dry well-ventilated area.

Section 8 Exposure Controls/Personal Protection

Exposure Limits:

Ingredient	Data Source	Exposure Form	Exposure Value	Exposure Notes
bromochloro dimethylimidazolidine dione	ACGIH TLV		Not Established	
	OSHA PEL		Not Established	

Appropriate Engineering Controls:

Use local and/or general exhaust ventilation to maintain airborne concentrations below irritating levels or exposure limits. An eyewash and safety shower should be available in the work area.

Individual Protection Measures:

Eye/Face Protection:

Chemical goggles or face shield should be worn when handling this material.

Skin Protection:

Hand Protection:

Wear chemical resistant gloves when handling.

Other:

Wear chemical resistant apron when handling.

Respiratory Protection:

Wear respiratory protection if dust is produced, while using this material.

General Hygiene Considerations:

Do not wear contaminated or dirty clothing home from the work-site. Launder contaminated or dirty clothing before reuse. Follow good hygiene and safety practice. Wash hands and exposed skin before breaks and at the end of the work day. Do not eat, drink or smoke while handling this material.

Additional Information:

No additional information available.

Section 9 Physical and Chemical Properties

Appearance	White to Off-White Tablet	Odor	Not available.
		Odor threshold	Not available.

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pH	Not available.
Melting/freezing point	Not available.
Initial boiling point	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower flammability limit	Not available.
Upper flammability limit	Not available.
Lower explosive limit	Not available.
Upper explosive limit	Not available.
Vapor pressure	0.00935 PA @ 25°C (77°F)
Vapor density	Not available.
Relative density	Not available.
Solubility in water	0.22g/100ml @ 25°C (77°F)
PC: n-octanol/water	Not available.
Auto-Ignition temperature	Not available.
Decomposition temperature	>320°F (>160°C)
Viscosity	Not available.
Density	Not available.
Specific gravity	1.8 - 2.0

Section 10 Stability and Reactivity

Reactivity :	Not reactive under normal use conditions.
Chemical Stability :	Material is stable under normal handling and storage conditions.
Hazardous Reactions :	Hazardous polymerization will not occur under normal handling and storage.
Conditions to Avoid :	Avoid excessive heating and chemical contamination.
Decomposition Products:	Nitrogen oxides, hydrogen chloride, hydrogen bromide, chlorine and carbon oxides.
Incompatible Materials:	Avoid contact with oxidizers and strong bases.

Section 11 Toxicological Information

Information on the likely routes of exposure:

Inhalation:

No information available.

Skin Contact:

Material may cause skin irritation and burns.

Eye Contact:

Material may cause eye irritation and burns.

Ingestion:

No information available.

Symptoms related to the physical, chemical and toxicological characteristics:

No information available.

Delayed and chronic effects:

No information available.

Numerical measures of toxicity:

Components	Exposure	Species	Dose	Notes
bromochloro dimethylimidazolidine dione:				
Oral	LD50	Rat	929 mg/kg	
Inhalation	LC50	Rat	1.1 mg/l	4 hr

Toxicological Effects:

Acute Toxicity:

Mixture:



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No information available.

Skin Corrosion/Irritation:

Mixture:

No information available.

Serious Eye Damage/Irritation:

Mixture:

No information available.

Respiratory Sensitization:

Mixture:

No information available.

Skin Sensitization:

Mixture:

No information available.

Germ Cell Mutagenicity:

Mixture:

No information available.

Carcinogenicity:

Mixture:

This product is considered to be a potential carcinogen by:

NTP: No

OSHA: No

IARC: No

Reproductive Toxicity:

Mixture:

This product is not expected to cause reproductive and developmental effects.

STOT-Single Exposure:

Mixture:

No information available.

STOT-Repeated Exposure:

Mixture:

No information available.

Aspiration Hazard:

Mixture:

This product is not an aspiration hazard.

Additional Information:

None.

Section 12 Ecological Information

Ecotoxicity:

No information available.

Numerical Measures of Ecotoxicity:

Components	Type	Species	Dose	Notes
bromochloro dimethylimidazolidine dione:				
Fish	LC50	Rainbow Trout	0.4 mg/l	96 hr
Invertebrate	EC50	Daphnia magna	0.75 mg/l	48 hr

Persistence and Degradability:

Mixture:

No information available.

Bioaccumulative Potential:

Mixture:

No information available.

Mobility in Soil:

Mixture:

No information available.

Other Adverse Effects:

Mixture:

No information available.

Additional Information:

No information available.



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Section 13 Disposal Considerations

Disposal Instructions:

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

Contaminated Packaging:

Triple rinse container and offer for recycling. Dispose of container following all federal, state and local regulations.

Additional Information:

No additional information available.

Section 14 Transport Information

DOT:

UN number: UN1479

UN proper shipping name: UN1479, Oxidizing Solid, N.O.S. (Bromo Chloro Dimethylhydantoin) ,5.1, PGIII

Class: 5.1

Subsidiary risk: none

Label(s): 5.1

Packing group: III

Packaging exceptions: none

Section 15 Regulatory Information

Federal Regulations:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

SARA 311/312 Hazard Categories:

Immediate (Acute) Health Hazard

Delayed (Chronic) Health Hazard

Fire Hazard

Sudden Release of Pressure Hazard

Reactivity Hazard

SARA 302 Extremely Hazardous Substance:

Not listed.

SARA 304 Emergency Release Notification:

Not regulated.

SARA 311/312 Hazardous Chemical:

No

SARA 313 Toxic Release Inventory (TRI) Report:

Not regulated.

CERCLA Hazardous Substance List:

Not Listed.

Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA):

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.

Clean Air Act Regulated Substances:

None.

Clean Water Act Regulated Substances:

None.

U.S. State Regulations:

None.

Canadian Regulations:**Canadian Ingridient Disclosure List Substances:**

None listed.

WHMIS Classification:

Not classified.

Section 16 Other Information

HMIS Hazard ID:

HEALTH	3
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	F

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *-Chronic Health Effect

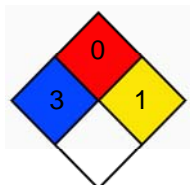
NFPA Hazard ID:

Flamability:

Health:

Reactivity:

Special Hazard:



Hazard Rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Disclaimer: The Manufacturer believes that the information contained in the Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of the publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.

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