

Section 1 Identification

Trade Name: Microbiocide 2108CF
Product Identification: RM-A223
Synonyms:
Date Prepared: 11/05/2015
CAS No: 55965-84-9

Product Use Description:
Industrial Water Treatment Biocide

Details of the supplier of the safety data sheet

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

Emergency telephone number

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

Section 2 Hazards Identification

GHS Classification: Skin Corrosion/Irritation Category 1B
Skin Sensitisation Category 1

GHS label elements:



Irritant



Corrosive

Signal Word: Danger

Hazard Statements:

H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction

Precautionary Statements:

Prevention

P260 Do not breathe mist, vapours or spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves, protective clothing and eye protection and/or face protection.

Response

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.
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.
P321 Specific treatment: see information on the SDS or label.
P333 + P313 IF SKIN irritation or rash occurs: Get medical attention.
P362 + P364 Take off contaminated clothing and wash before reuse

Storage

P405 Store locked up.



Safety Data Sheet

Microbiocide 2108CF

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 and synonyms	CAS #	%
3:1 5-chloro-2-methyl and 2-methyl : 2H-isothiazol-3-one		55965-84-9	1 - 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 immediate 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 extinguishing media suitable for surrounding fire or source of fire. Use water spray to cool fire exposed containers.

Unsuitable Extinguishing Media:

No information available.

Specific hazards developing from the chemical:

No information available.

Precautions for firefighters:

No information available.

Firefighting Instructions:

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:



Safety Data Sheet

Microbiocide 2108CF

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 cleaning up:

Absorb on inert material and place in containers 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 any 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
3:1 5-chloro-2-methyl and 2-methyl : 2H-isothiazol-3-one	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 clothing or chemical splash suit when handling.

Respiratory Protection:

Wear respiratory protection if mist or vapor is produced, while using this material.

General hygiene considerations:

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. Do not wear contaminated or dirty clothing home from the work-site. Launder contaminated or dirty clothing before reuse.

Additional information:

No additional information available.

Section 9 Physical and Chemical Properties

Appearance	Colorless to Pale Yellow Liquid	Lower explosive limit	Not available.
Odor	Mild	Upper explosive limit	Not available.
Odor threshold	Not available.	Vapor pressure	Not available.
pH	3.5	Vapor density	Not available.
Melting/freezing point	Not available.	Relative density	Not available.
Initial boiling point	212°F (100°C)	Solubility in water	Complete
Flash point	Not available.	PC: n-octanol/water	Not available.
Evaporation rate	Not available.	Auto-Ignition temperature	Not available.
Flammability (solid, gas)	Not available.	Decomposition temperature	Not available.
Lower flammability limit	Not available.	Viscosity	Not available.
Upper flammability limit	Not available.	Density	Not available.
		Specific gravity	1.02



Safety Data Sheet

Microbiocide 2108CF

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.
Conditions to avoid :	Avoid excessive heating, freezing and chemical contamination.
Decomposition products:	No decomposition products are expected under normal storage and handling conditions.
Incompatible materials:	Avoid contamination with other chemicals.

Section 11 Toxicological Information

Information on the likely routes of exposure:

Inhalation:

No information available.

Skin Contact:

No information available.

Eye Contact:

No information available.

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
:1 5-chloro-2-methyl and 2-methyl 2H-isothiazol -3-one:				
Oral	LD50	Rat	53 mg/kg	

Toxicological effects:

Acute Toxicity:

3:1 5-chloro-2-methyl and 2-methyl 2H-isothiazol -3-one:
No information available.

Skin Corrosion/Irritation:

3:1 5-chloro-2-methyl and 2-methyl 2H-isothiazol -3-one:
No information available.

Serious Eye Damage/Irritation:

3:1 5-chloro-2-methyl and 2-methyl 2H-isothiazol -3-one:
No information available.

Respiratory sensitization:

3:1 5-chloro-2-methyl and 2-methyl 2H-isothiazol -3-one:
No information available.

Skin sensitization:

3:1 5-chloro-2-methyl and 2-methyl 2H-isothiazol -3-one:
Yes

Germ cell mutagenicity:

3:1 5-chloro-2-methyl and 2-methyl 2H-isothiazol -3-one:
No information available.

Carcinogenicity:

3:1 5-chloro-2-methyl and 2-methyl 2H-isothiazol -3-one:
This product is considered to be a potential carcinogen by:
NTP: No
OSHA: No
IARC: No

Reproductive toxicity:

3:1 5-chloro-2-methyl and 2-methyl 2H-isothiazol -3-one:



Safety Data Sheet

Microbiocide 2108CF

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

STOT-single exposure:

3:1 5-chloro-2-methyl and 2-methyl 2H-isothiazol -3-one:
No information available.

STOT-repeated exposure:

3:1 5-chloro-2-methyl and 2-methyl 2H-isothiazol -3-one:
No information available.

Aspiration hazard:

3:1 5-chloro-2-methyl and 2-methyl 2H-isothiazol -3-one:
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
:1 5-chloro-2-methyl and 2-methyl 2H-isothiazol -3-one:				
Fish	LC50		No Data	
Invertebrates	EC50	No Data		

Persistence and degradability:

3:1 5-chloro-2-methyl and 2-methyl 2H-isothiazol -3-one:
No information available.

Bioaccumulative potential:

3:1 5-chloro-2-methyl and 2-methyl 2H-isothiazol -3-one:
No information available.

Mobility in soil:

3:1 5-chloro-2-methyl and 2-methyl 2H-isothiazol -3-one:
No information available.

Other adverse effects:

3:1 5-chloro-2-methyl and 2-methyl 2H-isothiazol -3-one:
No information available.

Additional information:

No information available.

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: UN3265

UN proper shipping name: UN3265, Corrosive Liquid, Acidic, Organic, N.O.S. (5-Chloro-2-Methyl-4-Isothiazolin-3-one) ,8, PGII

Class: 8

Subsidiary risk: none

Label(s):

Packing group: II

Packaging exceptions: none

Section 15 Regulatory Information

Trade Name: Microbiocide 2108CF
SDS ID: SDS00532

SDS #: RM-A223
Revision # 2

Page 5 of 7
Revision Date 11/05/2015



Safety Data Sheet

Microbiocide 2108CF

Federal regulations:

SARA 311/312 Hazard categories:

Immediate (Acute) Health Hazard
Delayed (Chronic) Health Hazard
Fire 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:

3:1 5-chloro-2-methyl and 2-methyl :
2H-isothiazol-3-one

CERCLA Hazardous substance list:

Not Listed.

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

This chemical is not a pesticide product.

Clean Air Act regulated substances:

None.

Clean Water Act regulated substances:

None.

U.S. state regulations:

None.

Canadian regulations:

Canadian Ingredient Disclosure List substances:

None listed.

WHMIS classification:

Not classified.

Section 16 Other Information

HMIS hazard ID:

HEALTH	3
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	D

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

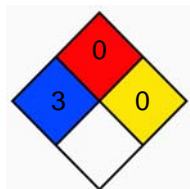
NFPA hazard ID:

Flamability:

Health:

Reactivity:

Special hazard:



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



Safety Data Sheet

Microbiocide 2108CF

Disclaimer: This 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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Revision: 2