

MATERIAL SAFETY DATA SHEET

Complies with EC Directives EC 91/155/EEC & 93/112/EC

1. Chemical Product and Company Identification

- 1.1. Product Name: **KURIVERTER F-5100**
- 1.2. Company Information: **KURITA AMERICA, INC.**
1313 Valwood Pkwy., Suite 370
Carrollton, TX 75006 USA
- 1.3. Points of Contact: Telephone: 972-484-4438
FAX: 972-484-4445
Web: www.kuritaamerica.com
- 1.4. Emergency Information: CHEMTREC – 1-800-424-9300

2. Composition / Information on Ingredients

Aqueous formulation based on Isothiazoline with biocidal effect.

2.1. This product is composed of the following ingredients:

- (a) 5-Chloro-2-methyl-isothiazoline-3-one (<1%)
(b) 2-Methyl-4-isothiazoline-3-one (<1%)

2.2. Characterization of important components according to 2.1.:

	CAS-No.	EINECS-No.	CAUTION	R-PHRASES
(a)	26172-55-4	247-500-7	C	34-43
(b)	2682-20-4	220-239-6	C	34-43

3. Hazards Identification

May cause irritation to nose, throat and lungs. It also may cause skin sensitization or dermatitis by short term contact. Material is harmful if swallowed. This product is toxic to aquatic organisms. Classified as a water hazard.

4. First Aid Measures

- 4.1. Eye Contact : IMMEDIATELY separate the eyelids, flush with copious amounts of water. Get prompt medical attention.
- 4.2. Skin Contact : Remove contaminated clothing, take a shower, thoroughly wash affected skin with soap and water. DO NOT WASH affected clothing and dispose of all leather goods.
- 4.3. Ingestion : Rinse mouth with water, take two to three glasses of water and contact physician IMMEDIATELY.
- 4.4. Inhalation : Guide affected person to fresh air. Contact a physician in case inconvenience persists.
- 4.5. Notes to Physician : Material is corrosive. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage.

Information given herein is to the best of our knowledge and is only related to the product as delivered in order to give a complete review of safety aspects accurate as of the date indicated. All data given are never meant to guarantee product properties.

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5. Fire Fighting Measures

- 5.1. Flammability of the product : This product is not flammable
5.2. Suitable extinguishing media : Use extinguishing media appropriate to surrounding fire conditions.
5.3. Special exposure hazards: During a fire or combustion of this product a highly irritating or toxic gas may be generated.

6. Accidental Release Measures

Wear proper protective equipment. Absorb spill with inert material and place in a chemical waste container. Do not discharge waste to municipal sewer or open bodies of water.

7. Handling and Storage

- 7.1. Handling : This material is corrosive, wear proper personal protection at all times when handling this product.
7.2. Storage : Store in a cool, dry, well ventilated location. Keep container right side up and tightly closed when not in use.

8. Physical and Chemical Properties

- 8.1. Appearance : Amber Liquid
8.2. Odor : Weakly Pungent
8.3. Physical State : Liquid
8.4. pH Value : 2.0 – 3.6 (20°C)
8.5. Vapor Pressure : 0.0027mmHg Component A
8.6. Vapor Density (Air=1) : 0.62 Estimate
8.7. Boiling Point : 100°C
8.8. Melting Point : N/A
8.9. Solubility in Water : 100%
8.10. Specific Gravity (Water=1) : 1.07 – 1.11 (20°C)
8.11. Autoignition Temperature : N/A

9. Stability and Reactivity

- 9.1. Stability : Stable, will not polymerize
9.2. Conditions to Avoid : Temperatures > 40°C
9.3. Materials to Avoid : Oxidizing agents, reducing agents, amines
9.4. Hazardous Decomposition : Thermal decomposition yields Hydrogen chloride, Sulfur dioxide, and oxides of Nitrogen.

10. Toxicological Information

- 10.1. This product is an eyes and skin irritant.
LD(50) oral/rat : 3,811ppm
LC(50) inhalation/rat : 1.45ppm over 4hours

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11. Ecological Information

11.1. Due to the biocidal effect of this product, the product in concentrated form may damage biological waste treatment plants. It is toxic to fish. Never release concentrated product into the environment. Neutralize polluted waste water before it's release to the drain.

LD(50) Killfish/24hour : 21.0ppm

LD(50) Killfish/48hour : 17.5ppm

12. Disposal Considerations

12.1. Waste disposal must be in accordance with appropriate US Federal, State, and International regulations (40 CFR 268). DO NOT USE Containers for Drinking Water Use.

13. Transport Information

13.1. DOT:

13.1.1. DOT – UN Number : 1760
13.1.2. DOT Shipping Name : Isothiazoline, aqueous solution
13.1.3. Hazard Class : 8 (Corrosive)
13.1.4. Subsidiary Risk (Class) : Not Applicable

13.2. IATA/ICAO:

13.2.1. Hazard Class : 8 (Corrosive)
13.2.2. Packing Group : III
13.2.3. Proper Shipping Name : Isothiazoline, aqueous solution
13.2.4. ID/UN Number : 1760
13.2.5. IATA Label : Corrosive

13.3. IMO:

13.3.1. Hazard Class : 8 (Corrosive)
13.3.2. Packing Group : III

13.4. TDG (Canada):

13.4.1. Status : No Data at this time
13.4.2. Packing Group : III

14. Regulatory Information

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This product is subject to regulation under the Canadian Pest Control Products Act, therefore, it is excluded from the supplier labeling and MSDS requirements as specified in the Hazardous Products Act.

SARA TITLE 3 Section 311/312 (40 CFR 370): Categorized as an immediate health hazard.

CERCLA Information (40 CFR 302.4): This material has a reportable quantity under the Comprehensive Environmental Response, Compensation and Liability Act and the Superfund Amendments and Reauthorization Act Title III Section 304. Report all spill quantities over 1,000lbs to the National Response Center (800-424-8802) and to state and local emergency response organizations.

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15. Other information

This MSDS was prepared in accordance with OSHA 29 CFR 1910.1200 and EC Directives EC 91/155/EEC & 93/112/EC.

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