SAFETY DATA SHEET
THE DOW CHEMICAL COMPANY*

Product name: KATHON™ CG ICP

THE DOW CHEMICAL COMPANY* encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. IDENTIFICATION

Product name: KATHON™ CG ICP

Recommended use of the chemical and restrictions on use
Identified uses: Preservative

COMPANY IDENTIFICATION
THE DOW CHEMICAL COMPANY*
Agent for Rohm and Haas Chemicals LLC
100 INDEPENDENCE MALL WEST
PHILADELPHIA PA  19106-2399
UNITED STATES

Customer Information Number: 215-592-3000
SDSQuestion@dow.com

EMERGENCY TELEPHONE NUMBER
24-Hour Emergency Contact: 1 800 424 9300
Local Emergency Contact: 800-424-9300

2. HAZARDS IDENTIFICATION

Hazard classification
This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.
Skin corrosion - Category 1B
Serious eye damage - Category 1
Skin sensitisation - Category 1

Label elements
Hazard pictograms
Signal word: **DANGER!**

**Hazards**
May intensify fire; oxidiser.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

**Precautionary statements**

**Prevention**
- Keep away from heat.
- Keep/Store away from clothing/ combustible materials.
- Take any precaution to avoid mixing with combustibles.
- Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- Wash skin thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response**
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
- If skin irritation or rash occurs: Get medical advice/ attention.
- Wash contaminated clothing before reuse.
- In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**Storage**
Store locked up.

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

Signal word: **DANGER!**

**Hazards**
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Causes serious eye damage.

**Precautionary statements**

**Prevention**
- Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response**
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse.

**Storage**
Store locked up.

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

**Other hazards**
no data available

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### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

**Chemical nature:** Aqueous solution of organic and inorganic compounds
This product is a mixture.

<table>
<thead>
<tr>
<th>Component</th>
<th>CASRN</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-Chloro-2-methyl-4-isothiazolin-3-one</td>
<td>26172-55-4</td>
<td>&gt;= 1.1 - 1.25 %</td>
</tr>
<tr>
<td>2-Methyl-4-isothiazolin-3-one</td>
<td>2682-20-4</td>
<td>&gt;= 0.3 - 0.45 %</td>
</tr>
<tr>
<td>Magnesium Chloride</td>
<td>7786-30-3</td>
<td>&gt;= 0.5 - 1.0 %</td>
</tr>
<tr>
<td>Magnesium nitrate</td>
<td>10377-60-3</td>
<td>&gt;= 21.0 - 23.5 %</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt;= 74.0 - 77.0 %</td>
</tr>
</tbody>
</table>

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### 4. FIRST AID MEASURES

**Description of first aid measures**
**Inhalation:** Move to fresh air. Give artificial respiration if breathing has stopped. If symptoms persist, call a physician.
**Skin contact:** IMMEDIATELY get under a safety shower. Remove contaminated clothing. Wash off with soap and water. Immediate medical attention is required. Wash contaminated clothing before re-use. Do not take clothing home to be laundered. Discard contaminated shoes, belts, and other articles made of leather.

**Eye contact:** Rinse immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

**Ingestion:** Drink 1 or 2 glasses of water. IMMEDIATELY see a physician. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed:** Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

**Indication of any immediate medical attention and special treatment needed**

**Notes to physician:** MATERIAL IS CORROSIVE. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock and convulsions maybe necessary.

## 5. FIREFIGHTING MEASURES

**Suitable extinguishing media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable extinguishing media:** no data available

**Special hazards arising from the substance or mixture**

**Hazardous combustion products:** no data available

**Unusual Fire and Explosion Hazards:** Combustion generates toxic fumes of the following: hydrogen chloride  Nitrogen oxides (NOx)  sulfur oxides

**Advice for firefighters**

**Fire Fighting Procedures:** Cool containers/tanks with water spray. Minimize exposure. Do not breathe fumes. Contain run-off.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus and protective suit.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Wear a NIOSH approved (or equivalent) respirator (with organic vapor/acid gas cartridge and a dust/mist filter) during spill clean-ups and deactivation of this material. MATERIAL IS CORROSIVE. Protective clothing, including chemical splash goggles, nitrile or butyl rubber full length gloves, rubber apron, or clothing made of nitrile or butyl rubber, and rubber overshoes must be worn during spill clean-ups and deactivation of this material. If material comes in contact with the skin during clean-up operations, IMMEDIATELY remove all contaminated clothing and wash exposed skin areas with soap and water. See SECTION 4, First Aid Measures, for further information.
Environmental precautions: Do not allow material to contaminate ground water system. Prevent product from entering drains.

Methods and materials for containment and cleaning up: WARNING: KEEP SPILLS AND CLEAN-UP RESIDUALS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER. Adsorb the spill with spill pillows or inert solids such as clay or vermiculite, and transfer contaminated materials to suitable containers for disposal. Deactivate spill area with freshly prepared solution of 5% sodium bicarbonate and 5% sodium hypochlorite in water. Apply solution to the spill area at a ratio of 10 volumes deactivation solution per estimated volume of residual spill to deactivate any residual active ingredient. Let stand for 30 minutes. Flush the spill area with copious amounts of water to chemical sewer (if in accordance with local procedures, permits and regulations). DO NOT add deactivation solution to the waste pail to deactivate the adsorbed material. See Section 13, “Disposal Considerations”, for information regarding the disposal of contained materials.

7. HANDLING AND STORAGE

Precautions for safe handling: This material is corrosive. For personal protection see section 8. Do not handle material near food, feed or drinking water.

Conditions for safe storage: Keep in a well-ventilated place. The product as supplied may evolve gas (largely carbon dioxide) slowly. To prevent the buildup of pressure the product is packaged in specially vented containers, where necessary. Keep this product in the original container when not in use. Container must be stored and transported in an upright position to prevent spilling the contents through the vent, where fitted. Do not store this material in containers made of the following: steel. Do not store this material near food, feed or drinking water.

CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all MSDS and label warnings even after container is emptied. Expiration date based only on retention of >95% actives during storage at 20°C-25°C (68°F-77°F).

Storage stability
Storage temperature: 1 - 55 °C (34 - 131 °F)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Exposure limits are listed below, if they exist.

<table>
<thead>
<tr>
<th>Component</th>
<th>Regulation</th>
<th>Type of listing</th>
<th>Value/Notation</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-Chloro-2-methyl-4-isothiazolin-3-one</td>
<td>Rohm and Haas</td>
<td>TWA</td>
<td>0.076 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Rohm and Haas</td>
<td>STEL</td>
<td>0.23 mg/m³</td>
</tr>
<tr>
<td>2-Methyl-4-isothiazolin-3-one</td>
<td>Rohm and Haas</td>
<td>TWA</td>
<td>1.5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Rohm and Haas</td>
<td>STEL</td>
<td>4.5 mg/m³</td>
</tr>
</tbody>
</table>

Exposure controls
Engineering controls: Use local exhaust ventilation with a minimum capture velocity of 150 ft/min. (0.75 m/sec.) at the point of dust or mist evolution. Refer to the current edition of “Industrial Ventilation: A Manual of Recommended Practice” published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Protective measures: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Individual protection measures

**Eye/face protection:** Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent). Eye protection worn must be compatible with respiratory protection system employed.

**Skin protection**

**Hand protection:** Chemical-resistant gloves should be worn whenever this material is handled. The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): Butyl-rubber. Nitrile rubber. PVC gloves >1 mm thickness Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. **NOTE:** Material is a possible skin sensitizer.

**Other protection:** Wear as appropriate: Chemical resistant apron complete suit protecting against chemicals

**Respiratory protection:** Typical use of this material does not result in workplace exposures that exceed the exposure limits listed in the Exposure Limit Information Section. For those special workplace conditions where the listed exposure limits are exceeded, a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed. For concentrations up to 10 times the exposure limit, wear a properly fitted NIOSH approved (or equivalent) half-mask or full facepiece air purifying respirator equipped with organic vapor cartridges and N95 filters. If oil mist is present, use R95 or P95 filters. For those unlikely situations where exposure may greatly exceed the listed exposure limits (i.e. greater than 10-fold), or in any emergency situation, wear a properly fitted NIOSH approved (or equivalent) self-contained breathing apparatus in the pressure demand mode or a full facepiece airline respirator in the pressure demand mode with emergency escape provision. See SECTION 6, Accidental Release Measures, for respirator and protective clothing requirements for spill clean-up and decontamination of this material.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical state</strong></td>
<td>liquid</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>colorless to pale yellow clear</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Mild, inoffensive odor</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>1.7 - 3.7</td>
</tr>
<tr>
<td><strong>Melting point/range</strong></td>
<td>-21.00 °C (-5.80 °F)</td>
</tr>
<tr>
<td><strong>Freezing point</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Boiling point (760 mmHg)</strong></td>
<td>ca.100.00 °C (212.00 °F)</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Noncombustible</td>
</tr>
<tr>
<td><strong>Evaporation Rate (Butyl Acetate = 1)</strong></td>
<td>&lt;1.00 Water</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>Lower explosion limit</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Upper explosion limit</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>0.100000 mmHg Isothiazolone</td>
</tr>
</tbody>
</table>
Relative Vapor Density (air = 1) 0.6500
Relative Density (water = 1) 1.2000
Water solubility completely soluble
Partition coefficient: n-octanol/water log Pow: 0.401 Method Not Specified.
Auto-ignition temperature Not applicable
Decomposition temperature no data available
Dynamic Viscosity 5.000 mPa.s at 23.00 °C (73.40 °F)
Kinematic Viscosity no data available
Explosive properties no data available
Oxidizing properties The substance or mixture is not classified as oxidizing.
Molecular weight no data available
Percent volatility 74.00 - 77.00 % Water

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Reactivity: no data available
Chemical stability: no data available
Possibility of hazardous reactions: Stable under recommended storage conditions. Product will not undergo polymerization.
Conditions to avoid: no data available
Incompatible materials: Avoid contact with the following: Oxidizing agents Amines. Reducing agents. Mercaptans.
Hazardous decomposition products: Nitrogen oxides (NOx) Sulphur oxides hydrogen chloride

11. TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appear in this section when such data is available.

Acute toxicity
Acute oral toxicity
LD50, Rat, female, 2,630 mg/kg
LD50, Rat, male, 3,350 mg/kg

Acute dermal toxicity
LD50, Rabbit, > 5,000 mg/kg
Acute inhalation toxicity
Active ingredient
LC50, Rat, 4 Hour, dust/mist, 0.33 mg/l

Skin corrosion/irritation
This material is corrosive.

Serious eye damage/eye irritation
Corrosive

Sensitization
Causes sensitisation.

Specific Target Organ Systemic Toxicity (Single Exposure)
Product test data not available.

Specific Target Organ Systemic Toxicity (Repeated Exposure)
Product test data not available.

Carcinogenicity
Product test data not available.

Teratogenicity
Product test data not available.

Reproductive toxicity
Product test data not available.

Mutagenicity
Product test data not available.

Aspiration Hazard
Product test data not available.

COMPONENTS INFLUENCING TOXICOLOGY:

5-Chloro-2-methyl-4-isothiazolin-3-one
Specific Target Organ Systemic Toxicity (Single Exposure)
Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure)
Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Carcinogenicity
Did not cause cancer in laboratory animals.

Reproductive toxicity
In animal studies, did not interfere with reproduction.

Mutagenicity
In vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were negative.

**Aspiration Hazard**
Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

**2-Methyl-4-isothiazolin-3-one**

**Specific Target Organ Systemic Toxicity (Single Exposure)**
May cause respiratory irritation.
Route of Exposure: Inhalation
Target Organs: Respiratory Tract

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**
Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

**Carcinogenicity**
Did not cause cancer in laboratory animals.

**Teratogenicity**
Did not cause birth defects in laboratory animals.

**Reproductive toxicity**
In animal studies, did not interfere with reproduction.

**Mutagenicity**
Negative in genetic toxicity tests.

**Aspiration Hazard**
Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

**Magnesium Chloride**

**Specific Target Organ Systemic Toxicity (Single Exposure)**
Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**
Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

**Carcinogenicity**
For similar material(s): Did not cause cancer in laboratory animals.

**Teratogenicity**
No relevant data found.

**Reproductive toxicity**
No relevant data found.

**Mutagenicity**
In vitro genetic toxicity studies were negative.

**Aspiration Hazard**
Based on physical properties, not likely to be an aspiration hazard.

Magnesium nitrate

Specific Target Organ Systemic Toxicity (Single Exposure)
Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure)
For similar material(s):
Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Carcinogenicity
No relevant data found.

Teratogenicity
For similar material(s): Did not cause birth defects or any other fetal effects in laboratory animals.

Reproductive toxicity
For similar material(s): In animal studies, did not interfere with reproduction.

Mutagenicity
In vitro genetic toxicity studies were negative.

Aspiration Hazard
Based on available information, aspiration hazard could not be determined.

<table>
<thead>
<tr>
<th>Carcinogenicity Component</th>
<th>List</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium nitrate</td>
<td>IARC</td>
<td>Group 2A: Probably carcinogenic to humans</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

Ecotoxicological information on this product or its components appear in this section when such data is available.

General Information
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxicity

5-Chloro-2-methyl-4-isothiazolin-3-one

Acute toxicity to fish
Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).
LC50, Rainbow trout (Oncorhynchus mykiss), 96 Hour, 0.19 mg/l, OECD Test Guideline 203 or Equivalent
LC50, Bluegill sunfish (Lepomis macrochirus), 96 Hour, 0.28 mg/l

Acute toxicity to aquatic invertebrates
EC50, Daphnia magna, 48 Hour, 0.16 mg/l
Acute toxicity to algae/aquatic plants
NOEC, Selenastrum capricornutum (green algae), Growth rate, 0.0099 mg/l
EC50, Algae (Selenastrum capricornutum), 72 Hour, Growth rate, 0.018 mg/l

Toxicity to bacteria
EC50, Bacteria, 16 Hour, 5.7 mg/l

Chronic toxicity to aquatic invertebrates
NOEC, Daphnia magna (Water flea), 21 d, number of offspring, 0.172000 mg/l
LOEC, Daphnia magna (Water flea), 21 d, number of offspring, 0.572000 mg/l

2-Methyl-4-isothiazolin-3-one
Acute toxicity to fish
Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).
LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, 4.77 mg/l, OECD Test Guideline 203 or Equivalent

Acute toxicity to aquatic invertebrates
LC50, Daphnia magna (Water flea), 48 Hour, 0.93 - 1.9 mg/l

Acute toxicity to algae/aquatic plants
EC50, Algae (Selenastrum capricornutum), 72 Hour, Growth rate, 0.158 mg/l, OECD Test Guideline 201

Chronic toxicity to aquatic invertebrates
NOEC, Daphnia magna, 21 d, 0.04 mg/l

Magnesium Chloride
Acute toxicity to fish
Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).
LC50, Gambusia affinis (Mosquito fish), static test, 96 Hour, 16,500 mg/l, Method Not Specified.

Acute toxicity to aquatic invertebrates
EC50, Daphnia magna (Water flea), 24 Hour, 3,190 mg/l, Directive 84/449/EEC, C.2

Acute toxicity to algae/aquatic plants
EC50, alga Scenedesmus sp., 72 Hour, Biomass, 2,200 mg/l, OECD Test Guideline 201 or Equivalent

Magnesium nitrate
Acute toxicity to fish
Not expected to be acutely toxic to aquatic organisms.
For similar material(s):
LC50, Poecilia reticulata (guppy), 96 Hour, > 100 mg/l

Acute toxicity to aquatic invertebrates
For similar material(s):
EC50, Daphnia magna, 48 Hour, > 100 mg/l

Acute toxicity to algae/aquatic plants
For similar material(s):
ErC50, Algae, 72 Hour, Growth rate, > 100 mg/l

Persistence and degradability

5-Chloro-2-methyl-4-isothiazolin-3-one
Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.
10-day Window: Not applicable
Biodegradation: 98 %
Exposure time: 2 d
Method: OECD Test Guideline 302B or Equivalent

2-Methyl-4-isothiazolin-3-one
Biodegradability: Material is expected to be readily biodegradable.

Biodegradation: 98 %
Exposure time: 48 d
Method: Simulation study

Magnesium Chloride
Biodegradability: Biodegradation is not applicable.

Magnesium nitrate
Biodegradability: No relevant data found.

Bioaccumulative potential
Partition coefficient: n-octanol/water(log Pow): 0.401 Method Not Specified.

Mobility in soil

5-Chloro-2-methyl-4-isothiazolin-3-one
No relevant data found.

2-Methyl-4-isothiazolin-3-one
No relevant data found.

Magnesium Chloride
Potential for mobility in soil is very high (Koc between 0 and 50).
Partition coefficient(Koc): 23.7

Magnesium nitrate
Potential for mobility in soil is very high (Koc between 0 and 50).
Given its very low Henry’s constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.
Partition coefficient(Koc): 24

13. DISPOSAL CONSIDERATIONS

Disposal methods: Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations. (See 40 CFR 268)
14. TRANSPORT INFORMATION

DOT

Proper shipping name: Corrosive liquid, acidic, organic, n.o.s.(5-Chloro-2-methyl-4-isothiazolin-3-one)
UN number: UN 3265
Class: 8
Packing group: II

Classification for SEA transport (IMO-IMDG):

Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(5-Chloro-2-methyl-4-isothiazolin-3-one)
UN number: UN 3265
Class: 8
Packing group: II
Marine pollutant: 5-Chloro-2-methyl-4-isothiazolin-3-one
Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code: Consult IMO regulations before transporting ocean bulk

Classification for AIR transport (IATA/ICAO):

Proper shipping name: Corrosive liquid, acidic, organic, n.o.s.(5-Chloro-2-methyl-4-isothiazolin-3-one)
UN number: UN 3265
Class: 8
Packing group: II

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

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

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312
Acute Health Hazard
Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313
This product contains a chemical which is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: (Quantity present is found elsewhere on this MSDS.)

Components

<table>
<thead>
<tr>
<th>Components</th>
<th>CASRN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium nitrate (10377-60-3) as nitrate compound</td>
<td>10377-60-3</td>
</tr>
</tbody>
</table>

Pennsylvania
Any material listed as “Not Hazardous” in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

United States TSCA Inventory (TSCA)
This product contains chemical substance(s) exempt from U.S. EPA TSCA Inventory requirements. It is regulated as a pesticide subject to Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) requirements.
EPA Registration Number: 707-166

DANGER
Corrosive
Causes irreversible eye damage and skin burns
May cause allergic skin reaction
Harmful if inhaled
Harmful if swallowed or absorbed through the skin
This chemical is toxic to aquatic plants, fish and aquatic invertebrates.

16. OTHER INFORMATION

Hazard Rating System

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
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Revision
Identification Number: 101081316 / 1001 / Issue Date: 02/24/2015 / Version: 2.0
Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

<table>
<thead>
<tr>
<th>Legend</th>
<th>Information Source and References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rohm and Haas</td>
<td>Rohm and Haas OEL's</td>
</tr>
<tr>
<td>STEL</td>
<td>Short Term Exposure Limit (STEL):</td>
</tr>
<tr>
<td>TWA</td>
<td>Time Weighted Average (TWA):</td>
</tr>
</tbody>
</table>
This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

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