

## 1. Product and Company Identification

Material name	<b>Padalinone</b>
Revision date	16-04-2020
Chemical class	Preservative

## 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 Causes severe skin burns and eye damage. May cause an allergic skin reaction.

### 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): 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.

### Storage

Store locked up.

### Disposal

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

### Other hazards

no data available

### 3. Composition / Information on Ingredients

Components	Percent
5-Chloro-2-methyl-4-isothiazolin-3-one	>= 1.15 - 1.25 %
2-Methyl-4-isothiazolin-3-one	>= 0.35 - 0.45 %
Magnesium nitrate	>= 1.7 - 1.8 %
Water	>= 95.5 - 96.2 %

### 4. First Aid Measures

First aid procedures

**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 reuse. 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. Fire Fighting 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



## Material Safety Data Sheet

FR-QC-14/Rev 00

20°C-25°C (68°F-77°F).

### Storage stability

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

## 8. Exposure Controls / Personal Protection

**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 & Chemical Properties

Physical state: liquid

Color :Light yellow to colorless

Odor :Pungent odor

Odor Threshold: no data available

pH 1/5- 3

Melting point/range :-3.00 °C ( 26.60 °F)

Freezing point: no data available

Boiling point (760 mmHg): 100.00 °C ( 212.00 °F)

estimated Flash point: Not applicable

Evaporation Rate :(Butyl Acetate = 1): <1.00

## 10.Stability & 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 (NO<sub>x</sub>) 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, 3,310 mg/kg

LD50, Rat, male, > 5,000 mg/kg

#### Acute dermal toxicity

LD50, Rabbit, > 5,000 mg/kg Acute inhalation toxicity

LC50, Rat, 4 Hour, dust/mist, > 5 mg/l Estimated.

**Skin corrosion/irritation** This material is corrosive.

**Serious eye damage/eye irritation** Corrosive



## Material Safety Data Sheet

FR-QC-14/Rev 00

**Sensitization** Has caused allergic skin reactions when tested in guinea pigs.

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

**Teratogenicity** Did not show teratogenic effects in animal experiments.

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

**Mutagenicity** Not mutagenic when tested in bacterial or mammalian systems.

### 12. Ecological Information

Ecotoxicological data

Product	Test Results
Padalinone	EC50 Algae: > 0.018 ppm 72 hours EC50 Daphnia: > 0.16 ppm 48 hours LC50 Fish: > 0.28 ppm 96 hours

### 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

### 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**

## 16. Other Information

HMIS® ratings

Health: 3

Flammability: 0

Physical hazard: 0

Disclaimer

Terms and Conditions. This MSDS is designed only as guidance for the products to which it applies. To the greatest extent permitted by applicable law, nothing contained herein creates any legal obligation including contractual obligations, expressed or implied warranties, including any warranties of merchantability or fitness for particular purpose; or confers any intellectual property rights, including rights to use trademarks or a license to use patents, issued or pending. The information contained herein is based on the manufacturer's own study and the work of others, and is subject to change at any time without further notice. There is no warranty, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein, and neither the provider nor the manufacturer (nor the agents, directors, officers, contractors or employees of either) are liable to any party for any damages of any nature, including direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of any information in this MSDS, or in any other way related (directly or indirectly) to this MSDS. The receipt and use of this information constitutes consent to these terms and conditions.

Issue date

05-0٤-2020