

# SAFETY DATA SHEET

## PREVENTOL D 7 CF



Version 1.0      Revision Date: 05/13/2019      SDS Number: 103000017487      Date of previous issue: -  
Country / Language: US / EN

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### SECTION 1. IDENTIFICATION

Product name : PREVENTOL D 7 CF  
Material number : 57548922  
Recommended use : Biocide for industrial application

#### Manufacturer or supplier's details

Supplier : LANXESS Corporation  
Product Safety & Regulatory Affairs  
111 RIDC Park West Drive  
PittsburghPA 15275-1112  
USA  
Telephone : +1800LANXESS  
+14128091000 (international)  
Emergency telephone : CHEMTREC (800) 424 9300  
International (703) 527 3887  
Lanxess Emergency Phone (800) 410-3063

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin corrosion : Category 1A  
Serious eye damage : Category 1  
Skin sensitization : Category 1  
Specific target organ system-ic toxicity - single exposure (Inhalation) : Category 1 (Respiratory Tract)

#### GHS label elements

Hazard pictograms : 

Signal Word : Danger  
Hazard Statements : Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
Causes damage to organs (Respiratory Tract) if inhaled.  
Precautionary Statements : **Prevention:**  
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

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Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing must 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/doctor.  
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/doctor.  
IF exposed: 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.

**Hazard Not Otherwise Classified (HNOC)**

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
magnesium nitrate	10377-60-3	>= 1 - < 5
5-chloro-2-methyl-3(2H)-Isothiazolone	26172-55-4	>= 1 - < 3
2-methyl-3(2H)-Isothiazolone	2682-20-4	>= 0.1 - < 1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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### SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : If inhaled, remove to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If not breathing, if breathing is irregular or respiratory arrest occurs, provide artificial respiration, or oxygen by a trained

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- professional, using a pocket type respirator.  
Get medical attention if symptoms occur.
- In case of skin contact : Get medical attention immediately.  
In case of contact, immediately flush skin with plenty of water for at least 30 minutes.  
Remove contaminated clothing and shoes.  
Wash contaminated clothing before re-use.  
Chemical burns must be treated promptly by a physician.
- In case of eye contact : Get medical attention immediately.  
In case of contact, flush eyes with plenty of water for at least 30 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Chemical burns must be treated promptly by a physician.
- If swallowed : If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.  
Get medical attention if symptoms occur.

### Most important symptoms and effects, both acute and delayed

- Symptoms : Skin: Reddening, burning, and possible permanent damage.  
Eye: Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.  
Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed to very low levels.  
Inhalation: Causes respiratory tract burns.
- Effects : May cause an allergic skin reaction.  
Causes serious eye damage.  
Causes damage to organs if inhaled.  
Causes severe burns.

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### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.  
In a fire or if heated, a pressure increase will occur and the container may burst.  
Water runoff from fire fighting may be corrosive.  
Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

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- Hazardous combustion products : Nitrogen oxides (NO<sub>x</sub>)  
Metal oxides  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Sulfur oxides  
Halogenated compounds
- Further information : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.  
No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
- 

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training.  
Put on appropriate personal protection equipment.  
Do not touch or walk through spilled material.  
Evacuate personnel to safe areas.  
Keep unnecessary and unprotected personnel from entering.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so.  
Move containers from spill area.  
Wash spillages into an effluent treatment plant or proceed as follows.  
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).  
Dispose of wastes in an approved waste disposal facility.  
Do not allow into the sewerage system, surface waters or groundwater or into the soil.  
Contaminated absorbent material may pose the same hazard as the spilled product.
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### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not breathe vapors/dust.  
Avoid contact with skin and eyes.  
Remove contaminated clothing and protective equipment before entering eating areas.  
Workers should wash hands and face before eating, drinking and smoking.  
Put on appropriate personal protection equipment.
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Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.  
Use only with adequate ventilation.  
Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.  
Persons with a history of skin sensitization to this product should not be employed in any process in which this product is used.

- Conditions for safe storage : Store in accordance with local regulations.  
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.  
Keep container closed when not in use.  
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.  
Do not store in unlabeled containers.  
Use appropriate container to avoid environmental contamination.
- Further information on storage stability : No decomposition if stored and applied as directed.
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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

- Respiratory protection : NIOSH approved, air-purifying organic vapor respirator.  
Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hand protection
- Material : Polychloroprene - CR  
Wearing time : < 60 min
- Material : Polyvinyl chloride - PVC  
Wearing time : < 60 min
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations
- Eye protection : Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.
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Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Color	:	yellow
Odor	:	odorless
Odor Threshold	:	No data available
pH	:	4 - 6 Concentration: 1 %
Melting point/range	:	30 °F (-1 °C)
Boiling point/boiling range	:	212 °F (100 °C) (1,013 hPa)
Flash point	:	> 212 °F (> 100 °C) Method: closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1.024 g/cm <sup>3</sup> (68 °F (20 °C))
Solubility(ies)	:	
Water solubility	:	miscible
Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	> 1112 °F (> 600 °C)
Decomposition temperature	:	No data available

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Viscosity  
Viscosity, dynamic                   : 1.244 mPa.s

Explosive properties                   : No data available

Oxidizing properties                   : No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity                               : No dangerous reaction known under conditions of normal use.

Chemical stability                     : Stable under normal conditions.

Possibility of hazardous reac-       : Under normal conditions of storage and use, hazardous reac-  
tions                                       tions will not occur.

Conditions to avoid                    : No data available

Incompatible materials                : No specific data.

Hazardous decomposition             : No data available  
products

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### SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

#### Information on likely routes of exposure

Inhalation  
Eye contact  
Skin contact  
Ingestion

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity                     : LD50 (Rat): > 2,000 mg/kg

Acute inhalation toxicity             : Acute toxicity estimate: 66.05 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity                  : LD50 (Rat): > 5,000 mg/kg

#### Components:

##### magnesium nitrate:

Acute oral toxicity                    : LD50 (Rat, female): > 5,000 mg/kg

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Method: OECD Test Guideline 423

GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

### **5-chloro-2-methyl-3(2H)-Isothiazolone:**

Acute oral toxicity : LD50 (Rat): 481 mg/kg

Acute inhalation toxicity : LC50 (Rat): 1.23 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 1,008 mg/kg

### **2-methyl-3(2H)-Isothiazolone:**

Acute oral toxicity : LD50 (Rat, female): 183 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.53 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit, male): 218 mg/kg

### **Skin corrosion/irritation**

Causes severe burns.

#### **Product:**

Result: Causes severe burns.

#### **Components:**

##### **magnesium nitrate:**

Species: Rabbit

Exposure time: 4 h

Method: OECD Test Guideline 404

Result: No skin irritation

##### **5-chloro-2-methyl-3(2H)-Isothiazolone:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: Causes burns.

##### **2-methyl-3(2H)-Isothiazolone:**

Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.



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### **Serious eye damage/eye irritation**

Causes serious eye damage.

#### **Product:**

Result: Corrosive

#### **Components:**

##### **magnesium nitrate:**

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

GLP: yes

##### **5-chloro-2-methyl-3(2H)-Isothiazolone:**

Species: Rabbit

Result: Risk of serious damage to eyes.

Method: OECD Test Guideline 405

##### **2-methyl-3(2H)-Isothiazolone:**

Remarks: Risk of serious damage to eyes.

### **Respiratory or skin sensitization**

#### **Skin sensitization**

May cause an allergic skin reaction.

#### **Respiratory sensitization**

Not classified based on available information.

#### **Components:**

##### **magnesium nitrate:**

Routes of exposure: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: Did not cause sensitization on laboratory animals.

GLP: yes

##### **5-chloro-2-methyl-3(2H)-Isothiazolone:**

Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitization by skin contact.

Remarks: Sensitizer

##### **2-methyl-3(2H)-Isothiazolone:**

Routes of exposure: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

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Result: May cause sensitization by skin contact.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**magnesium nitrate:**

Genotoxicity in vitro      :    Test system: Bacteria  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test system: Mammalian-Human  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes

Test system: Mammalian-Animal  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

**5-chloro-2-methyl-3(2H)-Isothiazolone:**

Genotoxicity in vitro      :    Test system: Bacteria  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: positive

Genotoxicity in vivo      :    Test Type: Micronucleus test  
Species: Mouse  
Application Route: Oral  
Result: negative

**2-methyl-3(2H)-Isothiazolone:**

Genotoxicity in vitro      :    Test system: Bacteria  
Method: OECD Test Guideline 471  
Result: negative

Test system: Mammalian-Animal  
Method: OECD Test Guideline 476  
Result: negative

Test system: Mammalian-Animal  
Method: OECD Test Guideline 473  
Result: negative

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### **Carcinogenicity**

Not classified based on available information.

#### **IARC**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### **OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### **NTP**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### **Reproductive toxicity**

Not classified based on available information.

#### **Components:**

##### **magnesium nitrate:**

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Dose: >= 1500 milligram per kilogram  
Duration of Single Treatment: 28 d  
General Toxicity Parent: NOAEL: >= 1,500 mg/kg body weight  
Method: OECD Test Guideline 422  
GLP: yes

Effects on fetal development : Species: Rat, male and female  
Application Route: Oral  
Dose: >= 1500 milligram per kilogram  
Duration of Single Treatment: 28 d  
Developmental Toxicity: NOAEL: >= 1,500 mg/kg body weight  
Method: OECD Test Guideline 422  
GLP: yes

##### **5-chloro-2-methyl-3(2H)-Isothiazolone:**

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Dose: 72 milligram per kilogram  
Method: OECD Test Guideline 415  
GLP: yes  
Remarks: No known significant effects or critical hazards.

Effects on fetal development : Species: Rat, female  
Application Route: Oral  
Dose: > 139 milligram per kilogram  
Duration of Single Treatment: 20 d  
Frequency of Treatment: 9 daily  
Result: No teratogenic potential.

### **STOT-single exposure**

Causes damage to organs (Respiratory Tract) if inhaled.

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### **Product:**

Routes of exposure: Inhalation  
Target Organs: Respiratory Tract  
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.

### **STOT-repeated exposure**

Not classified based on available information.

### **Repeated dose toxicity**

### **Components:**

#### **magnesium nitrate:**

Species: Rat, male and female  
NOAEL:  $\geq 1,500$  mg/kg  
Application Route: Oral  
Exposure time: 28 d  
Dose:  $\geq 1500$  mg/kg  
Method: OECD Test Guideline 422  
Remarks: Subacute toxicity

#### **5-chloro-2-methyl-3(2H)-Isothiazolone:**

Species: Rat, male and female  
NOAEL:  $> 18.75$  mg/kg  
Application Route: Dermal  
Exposure time: 90 d  
Dose:  $> 18,75$  mg/kg  
Remarks: Chronic toxicity

### **Aspiration toxicity**

Not classified based on available information.

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

### **Components:**

#### **magnesium nitrate:**

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 1,378 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 490 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 203  
Remarks: Fresh water

Toxicity to algae : EC50 (algae):  $> 1,700$  mg/l  
Exposure time: 10 Days

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Method: OECD Test Guideline 203

Remarks: salt water

### **5-chloro-2-methyl-3(2H)-Isothiazolone:**

Toxicity to fish : LC50 (Fish): 0.19 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 0.84 mg/l  
Exposure time: 48 h

Toxicity to fish (Chronic toxicity) : LC50 (Salmo gairdneri): 0.14 mg/l  
Exposure time: 6 d

### **2-methyl-3(2H)-Isothiazolone:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 150 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.87 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 0.157 mg/l  
Exposure time: 72 h

NOEC (Pseudokirchneriella subcapitata (microalgae)): 0.0104 mg/l  
Exposure time: 96 h

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (activated sludge): 31.7 mg/l  
Exposure time: 3 h

### **Persistence and degradability**

#### **Components:**

##### **magnesium nitrate:**

Biodegradability : Result: The methods for determining the biological degradability are not applicable to inorganic substances.

##### **2-methyl-3(2H)-Isothiazolone:**

Biodegradability : Result: Not readily biodegradable.

### **Bioaccumulative potential**

#### **Components:**

##### **2-methyl-3(2H)-Isothiazolone:**

Partition coefficient: n- : log Pow: -0.32

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octanol/water

### Mobility in soil

No data available

### Other adverse effects

No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

RCRA - Resource Conservation and Recovery Authorization Act : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Disposal methods : The generation of waste should be avoided or minimized wherever possible.  
This material and its container must be disposed of in a safe way.  
Empty containers retain product residue; observe all precautions for product.  
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.  
Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls.  
Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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## SECTION 14. TRANSPORT INFORMATION

### Domestic regulation

#### DOT

UN/ID/NA number : UN 3265  
Proper shipping name : Corrosive liquid, acidic, organic, n.o.s.  
(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)  
Class : 8  
Packing group : II  
Labels : 8  
:



Marine pollutant : no

### International Regulations

#### IATA-DGR

UN/ID No. : UN 3265

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Proper shipping name : Corrosive liquid, acidic, organic, n.o.s.  
(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)  
Class : 8  
Packing group : II  
Labels : 8



Packing instruction (cargo aircraft) : 855: 30.00 L  
Packing instruction (passenger aircraft) : 851: 1.00 L  
Environmentally hazardous : no

### IMDG-Code

UN number : UN 3265  
Proper shipping name : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)  
Class : 8  
Packing group : II  
Labels : 8



Marine pollutant : no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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## SECTION 15. REGULATORY INFORMATION

### CERCLA

None

### Reportable Quantity

This material does not contain any components with a CERCLA RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Respiratory or skin sensitization  
Serious eye damage or eye irritation  
Skin corrosion or irritation  
Specific target organ toxicity (single or repeated exposure)

### SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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### US State Regulations

#### Massachusetts Right To Know

magnesium nitrate      10377-60-3       $\geq 1 - < 5$

#### Pennsylvania Right To Know

Water      7732-18-5       $> 1$   
magnesium nitrate      10377-60-3       $\geq 1 - < 5$

#### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive defects.

#### TSCA inventory

TSCA : On TSCA Inventory, This product is subject under TSCA 5(a) to Proposed Significant New Use Restrictions (SNUR).

#### TSCA list

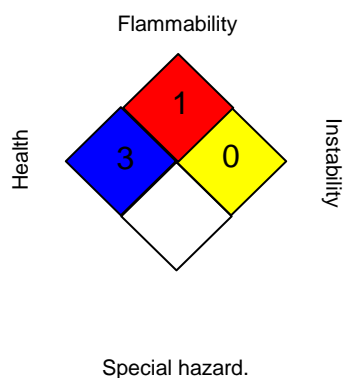
No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:  
5-chloro-2-methyl-3(2H)-Isothiazolone      26172-55-4

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA:



#### HMIS® IV:

HEALTH	/	3
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

LANXESS' method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided by LANXESS as a customer service.

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