

## 1. IDENTIFICATION

**Product Identifier**

**Product Name** BCS 3024CF

**Other means of identification**

**SDS#** BCS-001

**UN/ID No** UN3265

**Synonyms** Mixed Isothiazolins

**Recommended use of the chemical and restrictions on use**

**Recommended Use** For industrial use.

**Details of the supplier of the SDS****Supplier Address**

Bulk Chemical Services, LLC

726 Industrial Drive

Sandersville, GA 31082

**Emergency Telephone Number**

**Company Phone Number** (404) 350-8404

**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**GHS Classification**

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1B
Specific target organ toxicity (single exposure)	Category 3

**Signal Word**

Danger

**Hazard Statements**

Causes severe skin burns and eye damage

May cause an allergic skin reaction

May cause respiratory irritation. May cause drowsiness or dizziness.



**Appearance** Colorless to yellow liquid

**Physical State** Liquid

**Odor** Pungent

### **Precautionary Statements – Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Contaminated work clothing must not be allowed out of the workplace  
Use only outdoors or in a well-ventilated area

### **Precautionary Statements – Response**

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.  
IF ON SKIN (or hair): remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Wash contaminated clothing before reuse  
If skin irritation or rash occurs: get medical advice/attention  
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  
Call a poison center or doctor/physician if you feel unwell  
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

### **Precautionary Statements – Storage**

Store locked up  
Store in a well-ventilated place. Keep container tightly closed.

### **Precautionary Statements – Disposal**

Dispose of contents/container to an approved waste disposal plant

### **Other hazards**

Toxic to aquatic life with long lasting effects

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Synonyms** Mixed isothiazolinins.

Components	CAS No.	Weight %
Water	7732-18-5	95.0 – 96.0
Magnesium Nitrate	10377-60-3	1.4 – 2.0
Methylchloroisothiazolinone	26172-55-4	1.1 – 1.35
Magnesium Chloride	7786-30-3	1.0 – 1.2
Methylisothiazolinone	2682-20-4	0.35 – 0.45

## **4. FIRST AID MEASURES**

### **First Aid Measures**

#### **Eye Contact**

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.

#### **Skin Contact**

IF ON SKIN (or hair): remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: get medical advice/attention.

#### **Inhalation**

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.

**Ingestion** Rinse mouth. Do not induce vomiting. Slowly provide victim with copious amounts of water. Do not give fluids by mouth if victim is semi-comatose, comatose, or convulsing. Seek immediate medical attention/advice.

**Most important symptoms and effects**

**Symptoms** Causes severe skin burns and eye damage. May cause sensitization by skin contact. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness.

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

**Notes to Physician** Treat symptomatically. Material is corrosive. Possible mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock and convulsions may be necessary.

## 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

**Specific hazards arising from the chemical**

Material is corrosive.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Use personal protection recommended in Section 8.

**Environmental Precautions** Do not allow material to contaminate ground water system. Prevent product from entering drains. See Section 12 for additional ecological Information.

**Methods and material for containment and cleaning up**

**Methods for Containment** WARNING: KEEP SPILLS AND CLEAN-UP RESIDUALS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER. Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Absorb the spill with spill pillows or inert solids such as clay or vermiculite, and transfer contaminated material 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 of 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 absorbed material. See Section 13 "Disposal Considerations", for information regarding the disposal of contained materials.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Advice on Safe Handling**

Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Use personal protection recommended in Section 8. Keep away from food, drink, and animal feeding stuffs. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep containers tightly closed and store in a dry, cool, and well-ventilated place. Store locked up. 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. Storage temperature  $\geq 1^\circ\text{C}$  ( $\geq 34^\circ\text{F}$ ) and  $\leq 55^\circ\text{C}$  ( $\leq 131^\circ\text{F}$ ). 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 steel. Do not store this material near food, feed, or drinking water.

#### **Packaging Materials**

CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since empty containers retain product residue, follow all SDS and label warnings even after container is emptied. Expiration date based only on retention of  $>95\%$  actives during storage at  $20^\circ\text{C} - 25^\circ\text{C}$  ( $69^\circ\text{F} - 77^\circ\text{F}$ ).

#### **Incompatible Materials**

Strong oxidizing agents. Reducing agents. Amines. Mercaptans.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

No exposure limits noted for ingredient(s)

### Appropriate Engineering Controls

#### **Engineering Controls**

Ensure adequate ventilation (capture velocity of 150 ft/min minimum). Showers. Eyewash stations.

### Individual protection measures, such as personal protective equipment

#### **Eye/Face protection**

Use chemical safety goggles and/or full-face shield where splashing is possible.

#### **Skin/Body protection**

Protective Chemical impervious gloves of butyl rubber, nitrile rubber, or PVC, chemical resistant suit and boots. Use body protection appropriate for task. An apron or other impermeable body protection is suggested. Full-body chemical protective clothing is recommended for emergency response procedures.

#### **Respiratory protection**

NIOSH approved respirators should be worn if misting may occur and exposure is likely to exceed exposure limits up to 10X. Wear SCBA for exposure greater than 10X exposure limits.

### **General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food and drink.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State	Liquid		
Appearance	Colorless to yellow liquid	Odor	pungent
Color	Colorless to yellow	Odor Threshold	Not Det.
<b>Property</b>	<b>Values</b>	<b>Remarks / Method</b>	
pH	2.0 – 4.0	@ 25°C (77°F)	
Melting point/range	-3°C / 26.6°F	Water Solution	
Boiling point/range	~ 100°C / 212°F	Water Solution	
Flash point	Not applicable		
Evaporation rate	< 1.00		
Flammability (solid, gas)	Liquid - Not applicable		
Upper Flammability Limit	Not applicable		
Lower Flammability Limit	Not applicable		
Vapor pressure	Not determined		
Vapor density	~ 0.6		
Relative density (Specific Gravity)	1.02		
Water Solubility	Completely Soluble		
Solubility in other solvents	Not determined		
Partition Coefficient	log Pow: 0.401	Method not specified	
Auto-ignition temperature	Not determined		
Decomposition temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	3 mPa s	@ 25°C (77°F)	
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		
Additional Information	Note: The physical data presented above are typical values and should not be construed as a specification.		

## 10. STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions.
Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	None under normal processing
Hazardous Polymerization	Hazardous Polymerization does not occur
Conditions to avoid	Keep out of reach of children. Keep separated from incompatible substances.
Incompatible Materials	Strong oxidizing agents. Reducing agents. Amines. Mercaptans.
Hazardous decomposition products	Thermal decomposition of product can produce toxic vapors of sulfur oxides, hydrogen chloride, and oxides of nitrogen.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Eye Contact	Causes severe eye damage.
Skin Contact	Causes severe skin burns.

<b>Inhalation</b>	May cause irritation of respiratory tract. May cause drowsiness or dizziness.
<b>Ingestion</b>	Harmful if swallowed.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg ( Rat )	-	-
Magnesium Nitrate 10377-60-3	= 5440 mg/kg (Rat)	-	-
Methylchloroisothiazolinone 26172-55-4	= 481 mg/kg (Rat)	-	= 1.23 mg/L (Rat) 4 hr
Magnesium chloride 7786-30-3	= 2800 mg/kg (Rat)	-	-

#### Information on physical, chemical and toxicological effects

**Symptoms** Please see Section 4 of this SDS for symptoms

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** May cause sensitization by skin contact. May cause an allergic skin reaction.

**Carcinogenicity Component** Nitrate or nitrite ingested under conditions that result in endogenous nitrosation are considered IARC group 2A carcinogens.

Chemical Name	ACGIH	IARC	NTP	OSHA
Magnesium Nitrate 10377-60-3		Group 2A		X

#### Legend

**IARC (International Agency for Research on Cancer)**

Group 2A – Probably Carcinogenic to Humans

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

#### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

Oral LD50	27,756.00 mg/kg
Dermal LD50	74,667.00 mg/kg
ATEmix (inhalation-vapor)	91.11 mg/L

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Toxic to aquatic life with long lasting effects.

#### Component Information

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Methylchloroisothiazolinone 26172-55-4	0.31: 120 h Anabaena flos-aquae mg/L EC50 0.11 – 0.16: 72 h Pseudokirchneriella Subcapitata mg/L EC50 static 0.03 – 0.13: 96 h Pseudokirchneriella Subcapitata mg/L EC50 static	1.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	4.71: 48 h Daphnia magna mg/L EC50 0.12 – 0.3: 48 h Daphnia magna mg/L EC50 Flow through 0.71 – 0.99: 48 h Daphnia magna mg/L EC50 static
Magnesium Chloride 7786-30-3	82.7: 72 h Pseudokirchneriella subcapitata mg/L EC50	1970 - 3880: 96 h Pimephales promelas mg/L LC50 static 4210: 96 h Gambusia affinis mg/L LC50 static	140: 48 h Daphnia magna mg/L EC50 Static 1400: 24 h Daphnia magna mg/L EC50

**Persistence and degradability**

Not determined

**Bioaccumulation**

Not determined

**Mobility**

Chemical Name	Partition Coefficient
Methylchloroisothiazolinone 26172-55-4	0.75

**Other adverse effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste disposal**

Disposal should be in accordance with applicable regional, national, and local laws and regulations

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national, and local laws and regulations

**US EPA Waste Number**

D002

**California Hazardous Waste Status**

Chemical Name	California Hazardous Waste Status
Magnesium Nitrate 10377-60-3	Ignitable Reactive

**14. TRANSPORTATION INFORMATION****DOT**

UN/ID No	UN3265
Proper shipping Name	Corrosive liquid, acidic, organic, n.o.s (5-Chloro-2-methyl-4-isothiazolin-3-one)
Hazard Class	8
Packing Group	II

**IATA**

UN/ID No	UN3265
Proper shipping Name	Corrosive liquid, acidic, organic, n.o.s (5-Chloro-2-methyl-4-isothiazolin-3-one)
Hazard Class	8
Packing Group	II

**IMDG**

UN/ID No	UN3265
Proper shipping Name	Corrosive liquid, acidic, organic, n.o.s (5-Chloro-2-methyl-4-isothiazolin-3-one)
Hazard Class	8

## Packing Group Marine Pollutant

11

This product contains a chemical, which is listed as a severe marine pollutant according to IMDG/IMO

## 15. REGULATORY INFORMATION

## **International Inventories**

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Water	X	ACTIVE	X	X	X	X	X	X	X
Magnesium Nitrate	X	ACTIVE	X	X	X	X	X	X	X
5-Chloro-2-methyl-4-isothiazolin-3-one	X	ACTIVE	X	X	X	X	X	X	X
Magnesium Chloride	X	ACTIVE	X	X	X	X	X	X	X
Methylisothiazolinone	X	ACTIVE	X	X	X	X	X	X	X

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List**

**EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

**PICCS - Philippines Inventory of Chemicals and Chemical Substances**

**AICS - Australian Inventory of Chemical Substances**

## US Federal Regulations

## **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) Releases in excess of its reportable quantity must be reported to the National Response Center (1-800-424-8802) and to the appropriate state and local emergency response organizations. The formulation of this mixture as a whole has a reportable quantity of 100 lb. for EPA waste code D002.

## SARA 311/312 Hazard Categories

**Acute Health Hazard**

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals, which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS No	Weight %	SARA 313 – Threshold Values %
Magnesium Nitrate 10377-60-3	10377-60-3	1.4 – 2.0	1.0

## US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

## US State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Magnesium Nitrate 10377-60-3	X	X	X

## 16. OTHER INFORMATION

<u>NFPA</u>	<b>Health Hazards</b> Not determined	<b>Flammability</b> Not determined	<b>Instability</b> Not determined	<b>Special Hazards</b> Not determined
<u>HMIS</u>	<b>Health Hazards</b> 3	<b>Flammability</b> 0	<b>Physical Hazards</b> 0	<b>Personal Protection</b> Not determined

**Revision Date:** 27-Apr-2023  
**Previous Revision Date:** 17-Mar-2020  
**Approved by:** EH&S Department

**All sections reformatted in accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)**

The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations and management and for persons working with or handling this product. Additionally, if this Safety Data Sheet is more than three years old, you should contact Bulk Chemical Services at the phone number listed below to make certain that this sheet is current.

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*In an event of discrepancy between the contents of this SDS and the English version of it, the English version shall prevail.*

**Prepared by**

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**End of safety data sheet**