

166 Commerce Dr. Stoystown, PA 15563 (814) 629-7118 www.chemstream.com

Safety Data Sheet Clearal 2024

1. IDENTIFICATION

Product Name Clearal 2024

Description Microbiocidal bactericide, fungicide, and slimicide

Product class Biocide - Mixed Isothiazolins

Recommended Use For industrial use

Supplier Address 166Commerce Dr. Stoystown, PA 15563

Emergency Telephone Number

Company Phone Number (814) 629-7118

Emergency Telephone (24 hr) CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1B
Carcinogenicity	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

<u>Precautionary Statements - Response</u>

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 isothiazolins.

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 UpAbsorb 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°C (\geq 34°F) and \leq 55°C (\leq 131°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°C – 25°C (69°F –77°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

AppearanceColorless to yellow liquidOdorpungentColorColorless to yellowOdor ThresholdNot Det.

Flash point Not applicable

Evaporation rate < 1.00

Flammability (solid, gas) Liquid - Not applicable

Upper Flammability Limit
Lower Flammability Limit
Vapor pressure

Not applicable
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 Powr 0.401

Partition Coefficient log Pow: 0.401 Method not specified

Auto-ignition temperatureNot determinedDecomposition temperatureNot determinedKinematic ViscosityNot 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 Thermal decomposition of product can produce toxic vapors of

products 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.

Inhalation May cause irritation of respiratory tract. May cause drowsiness or

dizziness.

Ingestion 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 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	Ignitable
10377-60-3	Reactive

14. TRANSPORTATION INFORMATION

Note Please see current shipping paper for most up to date shipping

information, including exemptions and special circumstances.

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 ||

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 ||

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

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

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

yes

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	Х

16. OTHER INFORMATION

Health Hazards Special Hazards NFPA Flammability Instability Not determined Not determined Not determined Not determined **Physical Hazards** Flammability **Personal Protection HMIS Health Hazards** Not determined 3

SDS Issue Date: 5/7/2020

Version 1

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

The product information contained herein is believed to be accurate as of the date of the Safety Data Sheet, and is provided without warranty, expressed or implied, as to the results of use of this information or the product to which it relates. Recipient assumes all responsibility for the use of this information and the use (alone or in combination with any other product), storage or disposal of the product, including any resultant personal injury or property damage.

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

End of safety data sheet