


Material Safety Data Sheet

 6 Pearl Court, Suite H Allendale, NJ 07401 T 201-661-7161 · F 201-785-3915 www.suretylabs.com	FOR MSDS INFORMATION: (201) 661 - 7156 24-HOUR EMERGENCY TELEPHONE NUMBER CHEMTREC (800) 424-9300	Surcide CP
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1. IDENTIFICATION OF THE PRODUCT

Product Name: Surcide CP
Chemical Family: Proprietary mixture

HMIS/NPCA

Health = 3
Fire = 1
Reactivity = 0

Hazard Ratings:

0 = Least
1 = Slight
2 = Moderate
3 = High
4 = Extreme

2. HAZARDOUS INGREDIENTS

Product composition contains the following hazardous components reportable under OSHA Regulation 29 CFR 1910.1200:


Ingredient	CAS No.	Approx. Weight (%)	Exposure Limit
Magnesium nitrate	10377-60-3	21.1%	None established
5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	1.18%	0.100 mg/m ³ -total isothiazolinone – (SWE recommended TWA) 0.300 mg/m ³ -total isothiazolinone – SWE recommended STEL)
Magnesium chloride	7786-30-3	0.60%	None established
2-Methyl-4-isothiazolin-3-one	2682-20-4	0.40%	0.100 mg/m ³ -total isothiazolinone – (SWE recommended TWA) 0.300 mg/m ³ total isothiazolinone – (SWE recommended STEL)

3. PHYSICAL DATA

Changes of Physical State

Boiling Point: Not known
Freezing Point: - 16°C
Specific Gravity: 1.10 @ 25°C
Relative Vapor Density (air=1): Not known
Max. Percent Volatile: Not known

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Evaporation Rate (butyl acetate=1):	Not known
Viscosity:	5 cP @ 23°C
pH:	1.5 – 3.0
Water Solubility:	Soluble
Vapor Pressure:	0.1 mm Hg
Physical State:	Liquid
Appearance and Odor:	Colorless, mild odor


4. HAZARDS IDENTIFICATION

Primary Routes of Entry:	Skin contact, eye contact, inhalation
Effects of Overexposure:	Based on animal test data for this material, the following effect(s) can be anticipated: Direct skin or eye contact may produce severe irritation and/or burns and possible irreversible damage. This material is toxic by inhalation. Allergic skin reactions have been reported. As determined by the CTFA CIR Expert panel, this material will NOT be a human skin sensitizer, at the maximum recommended use levels. Their recommended maximum level of isothiazolinones in cosmetics is 15 ppm for rinse-off products and 7.5 ppm in leave-on products. They further state that, at these levels, isothiazolones will NOT be a human photosensitizer, a skin irritant, or a cumulative eye irritant.
Overexposure May Aggravate Existing Conditions:	Individuals pre-disposed to allergic skin reactions.
Carcinogenicity:	National Toxicology Program: No I.A.R.C. Monographs: No O.S.H.A.: No

5. EMERGENCY & FIRST AID PROCEDURES

Eye Contact:	For eye contact, immediately flush eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Get immediate medical attention.
Skin Contact:	For skin contact, wash with plenty of running water, and soap if available, for 15 minutes. Get immediate medical attention. Wash clothing and decontaminate shoes before reuse.
Inhalation:	If inhaled, remove from area to fresh air. Get immediate medical attention. If not breathing, clear airway and start artificial

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respiration. If victim is having trouble breathing, give supplemental oxygen, if available.

Ingestion: Get immediate medical attention. If swallowed, give 3-4 glasses of water. DO NOT induce vomiting. If vomiting does occur, give fluids again. Get medical attention to determine if vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.

Medical Treatment: If symptoms appear, contact a physician for medical treatment.

6. FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Not known
Flammable Limits in Air:	Lower: N/A Upper: N/A
Decomposition Temperature:	Not known
Self Ignition:	Not known
Recommended Extinguishing Media:	Foam, carbon dioxide, dry chemical, water
Special Fire Fighting Procedures:	Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.
Unusual Fire and Explosion Hazards:	Products of combustion are toxic. This product is corrosive to skin and metal. At high temperatures, this product may release toxic vapors/mists of hydrogen chloride and isothiazolin compounds.


7. ACCIDENTAL RELEASE MEASURES

Procedures if Material is Spilled or Released: CAUTION! If spilled, floors may become slippery. Wear appropriate protective gear and NIOSH/MSHA approved respirator where mists or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred). Dike and contain spill with inert material (sand, earth, etc.). Transfer the solid and liquid to separate containers for recovery or disposal. Keep spill out of sewers and open bodies of water. Spill residues, including material transferred to drums, must be deactivated with an equal volume of 10% aqueous sodium bisulfite. Allow this solution to react for at least 30 minutes. Transfer the liquid and solid separately to containers for disposal. Drums containing deactivated material must not be more than 2/3 full.

8. HANDLING AND STORAGE

Precautions to be Taken in Handling and Storage: Keep containers tightly closed until used. Store in dark-colored or opaque containers between 32°F and 130°F. Do not store in

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unlined metal containers. Open containers slowly and carefully, as there may be some pressure buildup.

Waste Disposal Procedure

Product: Dispose of in compliance with all Federal, State, and Local laws and regulations. Incineration is the preferred method. Material to be disposed of is classified as a D002 hazardous waste with a reportable quantity (RQ) of 100 lbs. of total isothiazolinone.

Packaging: CONTAINER DISPOSAL – METAL CONTAINERS:
Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved of by State and Local authorities.

CONTAINER DISPOSAL – PLASTIC CONTAINERS:
Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

9. SAFE HANDLING & USE INFORMATION

Ventilation: In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

Respiratory Protection: In processes where mists or vapors are generated, a NIOSH/MSH approved respirator is advised in the absence of proper environmental controls or if TWA/TLV is exceeded.

Protective Gloves: Use rubber or neoprene gloves, when needed, to prevent skin contact.


Eye Protection: Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions.

Other Protective Equipment: Eye wash, safety shower, protective clothing (long sleeves, coveralls, or other), when needed, to prevent skin contact.

10. STABILITY & REACTIVITY DATA

Stability: Stable

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Conditions to Avoid:	Temperatures above 130°F (Stable for 6 months @ 130°F).
Light:	Active ingredient is decomposed by UV light.
Hazardous Decomposition Products:	Toxic organic vapors/fumes, oxides of carbon, oxides of nitrogen, oxides of sulfur, hydrogen chloride, magnesium oxide, isothiazolin compounds.
Dangerous Polymerization:	No
Conditions to Avoid:	None known
Dangerous Incompatibility with water:	No
Dangerous Reactions/ Incompatibility with:	Oxidizing agents, reducing agents, amines, bases, mercaptans.

11. TOXICOLOGICAL INFORMATION

Acute Inhalation Toxicity (LC50):	Rat: 330 microgr/kg Exposure period: 4 hours (as 100% active isothiazolines) (CTFA CIR Report)
Acute Dermal Toxicity (LD50):	Rabbit: 4 – 79 mg/kg (as 100% active isothiazolines) (CTFA CIR Report)
Skin Irritation:	Rabbit: Severe irritant (Primary irritation index = 7.3, 7.5 (2 tests) (CTFA CIR Report) Rabbit: Corrosive (2.8% active isothiazolines, with much lower magnesium nitrate levels) (CTFA CIR Report)
Eye Irritation:	Rabbit: Corrosive (CTFA CIR Report)
Sensitization:	Human: Sensitizing (CTFA CIR Report) Human: Not sensitizing At 15 ppm (CTFA maximum recommended use level) this material was not a skin sensitizer. (CTFA CIR Report)

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Human: Not sensitizing
Photoallergenicity: At the CTFA maximum allowed level of 15 ppm.

12. ECOLOGICAL INFORMATION


Fish Toxicity (LC50):	Rainbow trout: 190 ppb Test period: 96 hours (as 100% active isothiazolone) Bluegill sunfish: 280 ppb Test period: 96 hours (as 100% active isothiazolone) Sheepshead minnow: 300 ppb Test period: 96 hours (as 100% active isothiazolone) Fiddler crab: 59 ppm Test period: 96 hours (as 100% active isothiazolone) Sand shrimp: 550 ppb Test period: 96 hours (as 100% active isothiazolone) Bay mussel embryo/larvae: 14 ppb Test period: 48 hours (as 100% active isothiazolone)
Toxicity for Daphnia (EC50):	Daphnia magna: 160 ppb Test period: 48 hours (as 100% active isothiazolone)
Acute Oral Toxicity (LD50):	Bobwhite quail: 65 mg/kg (as 100% active isothiazolone)
Dietary Toxicity Test (LC50):	Bobwhite quail: 3536 ppm Exposure period: 8 days (as 100% active isothiazolone) Mallard duck: 945 ppm Exposure period: 8 days (as 100% active isothiazolone)
Acute Toxicity Test (EC 50):	Eastern oyster: 28 ppb Exposure period: 48 hours (as 100% active isothiazolone)

13. TRANSPORTATION INFORMATION

DOT Shipping Information

Proper Shipping Name:	Corrosive Liquid, Acidic, Organic, N.O.S. (5-chloro-2-methyl-4-isothiazoline-3-one)
Hazard Class:	8, PG II

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UN No.: UN 3265, PG II
Label: Corrosive

14. REGULATORY INFORMATION

Directions for use:

For manufacturing, processing, or repackaging

FEDERAL LEVEL REGULATIONS

Toxic Substances Control Act (TSCA) Inventory:

None or only part of the ingredients of this product are currently listed on the EPA TSCA 8(b) Inventory list.

For use only in products that are not regulated under TSCA (such as EPA FIFRA registered and FDA regulated products), or for research and development (R&D) by technically qualified individuals.

US EPA Regulation on Pesticides:

This product is an EPA registered pesticide. EPA Registration No. 6836-241.

This product can only be used commercially in the EPA registered application(s) noted on the product label.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act of 1980)

Requires notification of the National Response Center (1-800-424-8802) of release of quantities of Hazardous Substances equal to or greater than the Reportable Quantities (RQs) in 40 CFR 302.4.

The following components could require reporting:

****None****

SARA Title III: Sections 302/304 (Superfund Amendments and Reauthorization Act of 1986)

Requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355.

Components present in this product at a level, which could require reporting under the statute are:

****None****


SARA Title III: Sections 311/312 (Superfund Amendments and Reauthorization Act of 1986)

Requires reporting under the Community Right-to-Know provisions due to their inclusion in one of the five hazard categories listed in 40 CFR 370.

Components present in this product, which could require reporting under the statute are:

IMMEDIATE (ACUTE) HEALTH HAZARD:

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Chemical Name	CAS No.	Concentration (max/typ)
Magnesium nitrate	10377-60-3	21.1%
5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	1.18%

SARA Title III: Section 313 (Superfund Amendments and Reauthorization Act of 1986)

Requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

Components present in this product at a level, which could require reporting under the statute, are:
HAZARDOUS SUBSTANCES ($\geq 1.0\%$):

Chemical Name	CAS No.	Concentration (max/typ)
Magnesium nitrate	10377-60-3	21.1%

TSCA Section 12(b) Export Notification:

Components present in this product, which, if exported, could require either annual or one-time reporting under this regulation are as follows:

****None****

STATE RIGHT-TO-KNOW REGULATIONS

California Proposition 65

Substances, which are known to the State of California to cause cancer and/or birth defects or other reproductive harm, must be identified when present in products.

Components present in this product at a level, which could require reporting under the statute in either or both hazard categories are:

AS A CANCER HAZARD:

Chemical Name	CAS No.	Concentration (max/typ)
N-Nitrosodimethylamine	62-75-9	0.50 ppm

Massachusetts Right-To-Know Substance List (MSL)

Hazardous and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.


Components present in this product at a level, which could require reporting under the statute are:

HAZARDOUS SUBSTANCES ($\geq 1.0\%$):

Chemical Name	CAS No.	Concentration (max/typ)
Magnesium nitrate	10377-60-3	21.1%

Michigan Critical Materials

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This product contains the following substances identified on the Michigan Critical Materials Register:

****None****

New Jersey Right-To-Know Substance List

Requires Hazardous Substances and Specially Hazardous Substances on the list to be identified when present in products.

Components present in this product at a level, which could require reporting under the statute are:

HAZARDOUS SUBSTANCES (> = 1.0%)

Chemical Name	CAS No.	Concentration (max/typ)
Magnesium nitrate	10377-60-3	21.1%
5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	1.18%

Pennsylvania Right-To-Know Hazardous Substance List

Hazardous Substances and Special Hazardous Substances on the List must be identified when present in products.

Components present in this product at a level, which could require reporting under the statute are:

HAZARDOUS SUBSTANCES (>= 1.0%):

Chemical Name	CAS No.	Concentration (max/typ)
Magnesium nitrate	10377-60-3	21.1%

15. OTHER INFORMATION

The information herein is presented in good faith and believed to be correct as of the date hereof. However, Surety Laboratories makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature with respect to the product or to the information herein is made. Surety Laboratories shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use or reliance upon information contained herein.

FOR FURTHER INFORMATION CONTACT:

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