



# Clear Shield Rx

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
Revision Date: 05/13/2015 Date of issue: 06/01/2015

Version: 1.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** Clear Shield Rx

**Product Code:** 1750

#### Intended Use of the Product

Clear, acrylic, non-toxic solution designed to provide at least 12 months of antimicrobial protection. For professional use only.

#### Name, Address, and Telephone of the Responsible Party

##### Manufacturer

The Garland Company, Inc.  
3800 East 91<sup>st</sup> Street  
Cleveland, Ohio 44105-2197  
T-800-762-8225  
F-216-641-0633  
www.garlandco.com

##### Supplier

The Garland Company, Inc.  
3800 East 91<sup>st</sup> Street  
Cleveland, Ohio 44105-2197  
T-800-762-8225  
F-216-641-0633  
www.garlandco.com

Garland Canada, Inc.  
209 Carrier Drive  
Toronto, Ontario M9W 5Y8  
T-416-747-7995  
F-416-747-1980  
www.garlandco.com

#### Emergency Telephone Number

**Emergency Number** : 1-800-762-8225 24 hours

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### Classification (GHS-US)

Acute Tox. Oral 4, H302

Sens. Skin 1, H317

Corr. Eye 1, H318

Acute Tox Inhal. 3, H331

STOT SE 2 H371

Full text of H-phrases: see section 16

#### Label Elements

##### GHS-US Labeling

##### Hazard Pictograms (GHS-US)



##### Signal Word (GHS-US)

: Danger

##### Hazard Statements (GHS-US)

: H302-Harmful if swallowed  
H314-Causes severe skin burns and eye damage  
H317-May cause an allergic skin reaction  
H318-Causes serious eye damage  
H331-Toxic if inhaled  
H371-May cause damage to organs by route of exposure if conclusively proven that no other route applies

##### Precautionary Statements (GHS-US)

: P260 - Do not breathe spray.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 - Wash face, hands and any exposed skin thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P309 + P311 - IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.  
P310 - Immediately call a POISON CENTER or doctor/physician.  
P311 - Call a POISON CENTER or doctor/physician.  
P321 - Specific treatment (see supplemental first aid instructions on this label).  
P330 - Rinse mouth.  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P363 - Wash contaminated clothing before reuse.  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container to an approved incineration plant.

### Other Hazards

No data available.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Dichloro-2-n-octyl-4-isothiazolin-3-one	(CAS No) 64359-81-5	< 0.1	Acute Tox Inhal. 3, H331 Corr. Skin 1C, H314 Corr. Eye 1, H318 Sens. Skin 1, H317 STOT SE 2 H371
Sodium copper ethylenediaminetetraacetate	(CAS No) 14025-15-1	< 0.05	Acute Tox. Oral 4, H302

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200]. A range of concentration as prescribed by the Controlled Products Regulations has been used where necessary, due to varying composition.

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** Allow victim to breathe fresh air. Allow the victim to rest.

**Skin Contact:** This product may irritate skin. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

**Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Ingestion:** Drink plenty of water to dilute the material in the stomach. Call a physician immediately.

### Most Important Symptoms and Effects Both Acute and Delayed

No additional information available.

### Indication of Any Immediate Medical Attention and Special Treatment Needed

No additional information available.

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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**Unsuitable Extinguishing Media:** None.

### **Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Water Based Product with no Flash Point. Material will not burn in liquid state. Cured product will burn.

**Reactivity:** Product is stable.

### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Cool containers/tanks with water spray. Minimize exposure. Do not breathe fumes. Contain run-off.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** No additional information available.

### **Reference to Other Sections**

Refer to section 9 for flammability properties.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Avoid contact with skin, eyes and clothing.

#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Evacuate unnecessary personnel. Eliminate ignition sources. Stop leak if safe to do so. Ventilate area.

Prevent entry to sewers and public waters.

### **Environmental Precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.

Store away from other materials.

### **Reference to Other Sections**

See heading 8, Exposure Controls and Personal Protection.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Wear protective gloves (i.e., nitrile). If spraying, it is recommended that an appropriate vapor or particulate mask be worn to protect from spray blow back. Handle in accordance with good industrial hygiene and safety practice. Avoid overspray - protect areas that are not to be coated from spray blow back.

### **Conditions for Safe Storage, Including Any Incompatibilities**

**Technical Measures:** DO NOT SUBJECT TO FREEZING TEMPERATURES. Freezing will destroy the product rendering not useable.

**Storage Conditions:** To prolong shelf life, store at temperatures below 80°F. Keep from freezing.

**Incompatible Materials:** No data available.

### **Specific End Use(s)**

No additional information available.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control Parameters**

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

### **Exposure Controls**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

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**Personal Protective Equipment:** Gloves. Safety glasses. Lightweight protective clothing.



**Hand Protection:** Wear protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable, lightweight protective clothing.

**Respiratory Protection:** No special protective equipment required. Effective dust mask.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use. Wash hands before breaks and at the end of workday. Avoid rubbing eyes.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Milky white
Odor	: Odorless
Odor Threshold	: Not available
pH	: Apprx.8
Evaporation Rate	: 1 ( H <sub>2</sub> O)=1)
Melting Point	: Not available
Freezing Point	: 32°F / 0°C
Boiling Point	: 212°F / 100°C
Flash Point	: > 212°F / > 100°C
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.03
Solubility	: Not Available
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available
Explosion Data – Sensitivity to Mechanical Impact	: Not available
Explosion Data – Sensitivity to Static Discharge	: Not available
Volatiles	: 70%
VOC	: <25

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Product is stable.

**Chemical Stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions:** None under normal processing

**Conditions to Avoid:** None known.

**Incompatible Materials:** Acids.

**Hazardous Decomposition Products:** Acrylic monomers.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified

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**LD50 and LC50 Data:** Acute oral toxicity:  
LD50, Rat, 978 mg/kg  
Acute dermal toxicity:  
LD50, Rabbit, > 2,000 mg/kg  
Acute inhalation toxicity:  
LC50, Rat, 4 Hour, dust/mist, 0.758 mg/l

**Skin Corrosion/Irritation:** Material is corrosive

**Serious Eye Damage/Irritation:** Corrosive

**Respiratory or Skin Sensitization:** Causes sensitization

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not available

**Carcinogenicity:**

Formaldehyde: This chemical has a reportable quantity of >0.1% which is not reached with any practical quantity in this product.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Specific Target Organ Toxicity (Single Exposure):** May cause respiratory irritation.

Route of Exposure: Oral

Target Organs: Respiratory Tract

**Aspiration Hazard:** Not classified

### **Information on Toxicological Effects - Ingredient(s)**

**LD50 and LC50 Data:** Not available.

## **SECTION 12: ECOLOGICAL INFORMATION**

### **Toxicity**

#### ***Dichloro-2-n-octyl-4-isothiazolin-3-one***

##### **Acute toxicity to fish:**

Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive species).

LC50, Oncorhynchus mykiss (rainbow trout), flow-through, 96 Hour, 0.0027 mg/l, OECD Test Guideline 203 or Equivalent

LC50, Bluegill sunfish (Lepomis macrochirus), flow-through, 96 Hour, 0.014 mg/l, OECD Test Guideline 203 or Equivalent

##### **Acute toxicity to aquatic invertebrates:**

EC50, Daphnia magna (Water flea), 48 Hour, 0.0057 mg/l

##### **Acute toxicity to algae/aquatic plants:**

EbC50, Pseudokirchneriella subcapitata (green algae), static test, 72 Hour, 0.048 mg/l, OECD Test Guideline 201

ErC50, Pseudokirchneriella subcapitata (green algae), static test, 72 Hour, 0.077 mg/l, OECD Test Guideline 201

##### **Toxicity to bacteria:**

EC50, activated sludge, Respiration rates., 5.70 mg/l

##### **Chronic toxicity to fish:**

NOEC, Oncorhynchus mykiss (rainbow trout), flow-through, 97 d, growth, 0.00056 mg/l

#### ***Sodium copper ethylenediaminetetraacetate***

##### **Acute toxicity to fish:**

No relevant data found.

### **Persistence and Degradability**

Not available

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### **Bioaccumulative Potential**

#### ***Dichloro-2-n-octyl-4-isothiazolin-3-one***

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 2.8 Measured

Bioconcentration factor (BCF): < 13 Fish.

#### ***Sodium copper ethylenediaminetetraacetate***

Bioaccumulation: No data available for this product. No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).

### **Mobility in Soil**

#### ***Dichloro-2-n-octyl-4-isothiazolin-3-one***

Expected to be relatively immobile in soil (Koc > 5000).

Partition coefficient(Koc): 5662 - 7865 Measured

#### ***Sodium copper ethylenediaminetetraacetate***

No data available.

### **Other Adverse Effects**

**Other Information:** Avoid release to the environment.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

## **SECTION 14: TRANSPORT INFORMATION**

### **In Accordance with DOT**

**Proper Shipping Name** : Not Regulated for non-bulk packaging of 450 liters (119 gallons) or less (DOT 49 CFR 173.150(f)).

**Hazard Class** :

**Identification Number** :

**Label Codes** :

**Packing Group** :

**ERG Number** :

### **In Accordance with IMDG**

**Proper Shipping Name** : Not regulated

**Hazard Class** :

**Identification Number** :

**Packing Group** :

**Label Codes** :

**EmS-No. (Fire)** :

**EmS-No. (Spillage)** :

**MFAG Number** :

### **In Accordance with IATA**

**Proper Shipping Name** : Not regulated

**Packing Group** :

**Identification Number** :

**Hazard Class** :

**Label Codes** :

**ERG Code (IATA)** :

### **In Accordance with TDG**

**Proper Shipping Name** : Non-regulated for surface transportation (no hazard label required for surface transportation via motor freight).

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**Packing Group** :  
**Hazard Class** :  
**Identification Number** :  
**Label Codes** :

### SECTION 15: REGULATORY INFORMATION

#### International Regulations

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
1,3-dihydroxymethyl-5,5-dimethylhydantion	X	X	X	X	X	X	X	X	X	X
Sodium copper ethylenediaminetetraacetate	X	X	X	X	X	X	X	X	X	X

**TSCA** Complies  
**DSL** Complies  
**NDSL** Complies  
**EINECS** Complies  
**ELINCS** Complies  
**ENCS** Complies  
**CHINA** Complies  
**KECL** Complies  
**PICCS** Complies  
**AICS** Complies

#### USA

##### Federal Regulations

###### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

###### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

##### State Regulations

###### California Proposition 65

This product contains the following Proposition 65 chemicals: Formaldehyde (<0.1%)

##### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

###### WHMIS Hazard Class

Not determined

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 06/01/2015  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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### **Party Responsible for the Preparation of This Document**

The Garland Company, Inc.  
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Cleveland, Ohio 44105-2197  
T-800-762-8225

*This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety, and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.*

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