

Isocil™ RW 1.5

Version 1.0

MSDS Number: CO00004136

Revision Date: 2015.06.04

SECTION 1. IDENTIFICATION

Product name : Isocil™ RW 1.5

Product code : CO00004136

Manufacturer or supplier's details

Company : **Lonza Inc.**
90 Boroline Road
Allendale, NJ 07401
USA
Business Telephone 1-201-316-9200

Lonza Inc.
1200 Bluegrass Lakes Pkwy
Alpharetta, GA 30004
USA
Business Telephone 1-678-624-5800

E-mail address : prodinfo@lonza.com

Emergency telephone number : +41 61 313 94 94 (24h)

For US only CHEMTREC 1-800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use : Biocides

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Skin corrosion : Category 1

Serious eye damage : Category 1

GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/
face protection.
Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT

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induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
 P305 + P351 + P338 + P310 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.
 P363 Wash contaminated clothing before reuse.
Storage:
 P405 Store locked up.
Disposal:
 P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
5-Chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	1.11
2-Methyl-2H-isothiazol-3-one	2682-20-4	0.39
Magnesium nitrate	10377-60-3	1.73
Magnesium chloride	7786-30-3	0.54
Water	7732-18-5	96.03

SECTION 4. FIRST AID MEASURES

- If inhaled : Move to fresh air.
 If breathing is irregular or stopped, administer artificial respiration.
 Give oxygen.
 First aider needs to protect himself.
 Call a physician immediately.
- In case of skin contact : Take off all contaminated clothing immediately.
 After contact with skin, wash immediately with plenty of soap and water.
 Call a physician immediately.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
 Call a physician immediately.
- If swallowed : Call a physician immediately.
 Clean mouth with water and drink afterwards plenty of water.
 Do not induce vomiting without medical advice.
 Never give anything by mouth to an unconscious person.

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SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Dry powder
Water spray
Foam
- Specific hazards during firefighting : Heating or fire can release toxic gas.
- Further information : Use water spray to cool unopened containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use respirator when performing operations involving potential exposure to vapour of the product.
- Environmental precautions
- General advice : Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
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SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid contact with skin and eyes.
Provide sufficient air exchange and/or exhaust in work rooms.
- Conditions for safe storage : Keep container tightly closed.
To maintain product quality, do not store in heat or direct sunlight.
Keep in a dry, cool and well-ventilated place.
- Recommended storage temperature : 1 - 54 °C
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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Appropriate engineering controls**Personal protective equipment**

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Hand protection

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Material	:	Nitrile rubber
Rate of permeability	:	> 480 min
Eye protection	:	Tightly fitting safety goggles Face-shield
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Rubber or plastic apron Rubber or plastic boots
Hygiene measures	:	Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	light green
Odour	:	pungent
Odour Threshold	:	no data available
pH	:	2.0 - 4.0
Melting point/range	:	-3 °C
Boiling point/boiling range	:	ca. 100 °C
Flash point	:	no data available
Evaporation rate	:	no data available
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	0.1 hPa
Relative vapour density	:	no data available
Relative density	:	no data available
Density	:	1.02 g/cm ³ (20 °C)
Solubility(ies)	:	
Water solubility	:	completely soluble
Partition coefficient: n-octanol/water	:	no data available

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Auto-ignition temperature	: no data available
Decomposition temperature	: no data available
Viscosity	
Viscosity, dynamic	: 3 mPa.s (25 °C)
Viscosity, kinematic	: no data available

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	: Stable under normal conditions.
Conditions to avoid	: no data available
Incompatible materials	: Reducing agents Amines Bases Oxidizing agents
Hazardous decomposition products	: Nitrogen oxides (NO _x) Carbon oxides Sulphur oxides Hydrogen chloride gas

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: Skin Eyes Ingestion Inhalation
Acute toxicity	
Acute oral toxicity (LD50)	: 2,350 mg/kg Species: Rat Method: OECD Test Guideline 401 GLP: yes
Acute dermal toxicity (LD50)	: 4.5 - 79 mg/kg Species: Rabbit
Acute dermal toxicity (LD50)	: > 2,000 mg/kg Species: Rabbit Exposure time: 24 h Method: OECD Test Guideline 402 GLP: yes
Skin corrosion/irritation	
Skin irritation	: Corrosive Species: Rabbit Exposure time: 4 h Method: OECD Test Guideline 404 GLP: yes
Serious eye damage/eye irritation	

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Eye irritation : Corrosive
Species: Rabbit
Method: OECD Test Guideline 405
GLP: yes

Respiratory or skin sensitisation

Sensitisation : Test Type: Buehler Test
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Sensitising
GLP: yes

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

Toxicity to terrestrial organisms : LD50(Colinus virginianus (Bobwhite quail)): 65.000 mg/kg
End point: Acute toxicity

LC50(Colinus virginianus (Bobwhite quail)): 3,536.000 ppm
Exposure time: 8 d
End point: Subacute toxicity

LC50(Anas platyrhynchos (Mallard duck)): 945.000 ppm
Exposure time: 8 d
End point: Subacute toxicity

EC50(Eastern oyster): 28.000 ppb
Exposure time: 48 h
End point: Acute toxicity

LC50(Anas platyrhynchos domestica (Peking duck)): 530.000 ppm
Exposure time: 8 d
End point: Subacute toxicity

Persistence and degradability

no data available

Bioaccumulative potential**Components:****5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (mixture 3:1)**

Partition coefficient: n- : log Pow: 0.71 - 0.75 (20 °C)
octanol/water Method: OECD Test Guideline 117

Mobility in soil

no data available

Other adverse effects

no data available

The following ecotoxicological data refer to:

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5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (mixture 3:1) (CAS-No.: 55965-84-9)

Ecotoxicity

- Toxicity to fish (LC50) : 0.19 mg/l
Species: *Oncorhynchus mykiss* (rainbow trout)
Acute toxicity
Exposure time: 96 h
- Toxicity to fish (LC50) : 0.28 mg/l
Species: *Lepomis macrochirus* (Bluegill sunfish)
Acute toxicity
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates (EC50) : 0.16 mg/l
Species: *Daphnia magna* (Water flea)
Immobilization
Exposure time: 48 h
- Toxicity to daphnia and other aquatic invertebrates (NOEL) : 0.035 mg/l
Species: *Daphnia magna* (Water flea)
Reproduction Test
Exposure time: 21 d
Method: OECD Test Guideline 202
- Toxicity to algae (ErC50) : 0.027 mg/l
Species: *Selenastrum capricornutum* (green algae)
Growth inhibition
Exposure time: 72 h
Test Type: Growth inhibition
- M-Factor (Acute aquatic toxicity) : 10
M-Factor (Chronic aquatic toxicity) : 1

Persistence and degradability

- Biodegradability : Result: Not readily biodegradable.

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

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SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

- Waste from residues : Dispose of in accordance with local regulations.
Contact waste disposal services.
- Contaminated packaging : Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION**IATA**

- UN number** : 3265
Proper shipping name : Corrosive liquid, acidic, organic, n.o.s.
(5-Chloro-2-methyl-4-isothiazolin-3-one)
Transport hazard class : 8
Packing group : II
Labels : 8
Environmental hazards : no

IMDG

- UN number** : 3265
Proper shipping name : Corrosive liquid, acidic, organic, n.o.s.
(5-Chloro-2-methyl-4-isothiazolin-3-one)
Transport hazard class : 8
Packing group : II
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B
Environmental hazards : Marine pollutant: no

ADR

- UN number** : 3265
Proper shipping name : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(5-Chloro-2-methyl-4-isothiazolin-3-one)
Transport hazard class : 8
Packing group : II
Classification Code : C3
Hazard Identification Number : 80
Labels : 8
Environmental hazards : no

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RID

UN number : 3265
Proper shipping name : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(5-Chloro-2-methyl-4-isothiazolin-3-one)
Transport hazard class : 8
Packing group : II
Classification Code : C3
Hazard Identification Number : 80
Labels : 8
Environmental hazards : no

DOT

UN number : 3265
Proper shipping name : Corrosive liquid, acidic, organic, n.o.s.
(5-Chloro-2-methyl-4-isothiazolin-3-one)
Transport hazard class : 8
Packing group : II
Labels : 8
Emergency Response Guidebook : 153
Number
Environmental hazards : no

TDG

UN number : 3265
Proper shipping name : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(5-Chloro-2-methyl-4-isothiazolin-3-one)
Transport hazard class : 8
Packing group : II
Labels : 8
Environmental hazards : no

Special precautions for user : none

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

SECTION 15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

Signal word : DANGER!
Hazard statements : Harmful if swallowed.
May be fatal if absorbed through skin.
Corrosive. Causes skin burns.
Corrosive. Causes irreversible eye damage.
This pesticide is toxic to fish.

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This pesticide is toxic to aquatic invertebrates.

EPCRA - Emergency Planning and Community Right-to-Know Act**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
N/A			

SARA 311/312 Hazards : Acute Health Hazard**SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Magnesium nitrate	10377-60-3	1.73 %
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US State Regulations**Massachusetts Right To Know**

Magnesium nitrate 10377-60-3

Pennsylvania Right To Know

Magnesium nitrate 10377-60-3

New Jersey Right To Know

Magnesium nitrate 10377-60-3

California Prop 65

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

SECTION 16. OTHER INFORMATION

Revision Date : 2015.06.04

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.