

SAFETY DATA SHEET

according to US Regulation 29 CFR 1910.1200 and the Canadian HPA

Isocil™ RW 1.5

/ersion 1.2		Revision Date 2019.08.07	Print Date 2019.09.1
ECTION 1. IDENTIFICATION			
Product name	:	Isocil™ RW 1.5	
Manufacturer or supplier's details			
Company	:	Lonza Inc. 412 Mount Kemble Avenue, Suite 200S Morristown, NJ 07960 USA Business Telephone 1-201-316-9200	
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 chemica	al and	restrictions on use	
Recommended use	:	Biocides	

Ref. 31861.1 / CO00004136	SDS US/EN Page 1 (12)
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 induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	H318 Causes serious eye damage.
Hazard statements	: H314 Causes severe skin burns and eye damage.
Signal word	: Danger
Hazard pictograms	
GHS label elements	
Serious eye damage	: Category 1
GHS Classification Skin corrosion	: Category 1



P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
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/doctor.
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 / Synonyms	CAS-No.	Concentration (% w/w)
5-Chloro-2-methyl-2H-isothiazol-3-one and 2-	55965-84-9	1.54
Methyl-2H-isothiazol-3-one (mixture 3:1)		
Magnesium nitrate	10377-60-3	1.73
Magnesium chloride	7786-30-3	0.54
Copper dinitrate	3251-23-8	0.16

SECTION 4. FIRST AID MEASURES

If inhaled :	Move to fresh air. If breathing is irregular or stopped, administer artificial respira- tion. 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.
Most important symptoms and ef- : fects, both acute and delayed	None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Dry powder Water spray Foam	
Further information	: Use water spray to cool unopened containers.	
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparate	us.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency proce- dures	:	Use respirator when performing operations involving potential exposure to vapour of the product.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system.
Methods and materials for contain- ment and cleaning up	:	Contain spillage, and then collect with non-combustible ab- sorbent material, (e.g. sand, earth, diatomaceous earth, ver- miculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Take precautionary measures against static discharges.
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 sun- light. Keep in a dry, cool and well-ventilated place.
Further information on storage con- ditions	:	Open drum carefully as content may be under pressure. Metal containers must be lined. Corrodes base metals.
Technical measures/Precautions	:	Open drum carefully as content may be under pressure. Metal containers must be lined. Corrodes base metals.
Recommended storage temperature	:	34 - 129 °F / 1 - 54 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

(Form of ters / Permissi-	Components CAS-		Control parame- ters / Permissi-	Basis
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		exposure)	ble concentra- tion	
5-Chloro-2-methyl-2H-isothiazol-	55965-84-9		0.2 mg/m3	LIGEL*
3-one and 2-Methyl-2H-			_	
isothiazol-3-one (mixture 3:1)				

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection	In the case of vapour formation use a respirator with an approved filter.
Hand protection Material Rate of permeability	Nitrile rubber > 480 min
Eye protection	Tightly fitting safety goggles Face-shield
Skin and body protection	Choose body protection according to the amount and con- centration 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, includ- ing the inside, before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	light green
Odour	:	pungent
Odour Threshold	:	no data available
рН	:	2.0 - 4.0
Melting point/range	:	27 °F / -3 °C
Boiling point/boiling range	:	ca. 212 °F / 100 °C
Flash point	:	no data available
Evaporation rate	:	no data available
Flammability (solid, gas)	:	no data available
Flammability (liquids)	:	no data available
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available

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Vapour pressure	:	0.1 hPa
Relative vapour density	:	
		0.6
Relative density	:	no data available
Density	:	1.02 g/cm3 (68 °F / 20 °C)
Water solubility	:	completely soluble
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity, dynamic	:	3 mPa.s (77 °F / 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 (NOx) Carbon oxides Sulphur oxides Hydrogen chloride gas

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of expo- sure	:	Skin Eyes Ingestion Inhalation
Acute toxicity Acute oral toxicity	:	LD50 (Rat): 2,350 mg/kg Method: OECD Test Guideline 401 GLP: yes
Acute dermal toxicity	:	LD50 (Rabbit): 4.5 - 79 mg/kg LD50 (Rabbit): > 2,000 mg/kg

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Method: OECD Test Guideline 402 GLP: yes

Skin corrosion/irritation

Species: Rabbit Exposure time: 4 h Method: OECD Test Guideline 404 Result: Corrosive GLP: yes

Serious eye damage/eye irritation

Species: Rabbit Result: Corrosive Method: OECD Test Guideline 405 GLP: yes

Respiratory or skin 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):

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Partition coefficient: n-octanol/water : log Pow: 0.71 - 0.75 (20 °C)

log Pow: 0.71 - 0.75 (20 °C) Method: OECD Test Guideline 117

Mobility in soil

no data available

Other adverse effects no data available

The following ecotoxicological data refer to:

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 (Oncorhynchus mykiss (rainbow trout)): 0.19 mg/l Exposure time: 96 h Test Type: flow-through test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquat- ic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.16 mg/l Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 202
Toxicity to algae	:	ErC50 (Selenastrum capricornutum (green algae)): 0.027 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201
		NOEC (Skeletonema costatum (marine diatom)): 0.0014 mg/l Exposure time: 72 h Test Type: Growth inhibition
M-Factor (Acute aquatic toxicity) Toxicity to fish (Chronic toxicity)	:	10 NOEC (Oncorhynchus mykiss (rainbow trout)): 0.05 mg/l Exposure time: 14 d Test Type: flow-through test
Toxicity to daphnia and other aquat- ic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.035 mg/l Exposure time: 21 d Test Type: Reproduction Test Method: OECD Test Guideline 202
M-Factor (Chronic aquatic toxicity)	:	1
Persistence and degradability		
Biodegradability	:	Result: rapidly degradable Biodegradation: < 50 % Exposure time: 10 d
Bioaccumulative potential		
no data available		
Mobility in soil		
Distribution among environmental compartments	:	Koc: ca. 28Remarks: Highly mobile in soils



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Other adverse effects

no data available

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

DOT

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

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TDG

ΙΑΤΑ	UN number Proper shipping name Transport hazard class Packing group Labels Environmental hazards	 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (5-Chloro-2-methyl-4-isothiazolin-3-one) 8 II 8 no 	
	UN number Proper shipping name Transport hazard class Packing group Labels Environmental hazards	 3265 Corrosive liquid, acidic, organic, n.o.s. (5-Chloro-2-methyl-4-isothiazolin-3-one) 8 II 8 no 	
IMDG			
	UN number Proper shipping name Transport hazard class Packing group Labels EmS Number 1 EmS Number 2 Environmental hazards	 3265 Corrosive liquid, acidic, organic, n.o.s. (5-Chloro-2-methyl-4-isothiazolin-3-one) 8 II 8 F-A S-B Marine pollutant: no 	
ADR	UN number Proper shipping name Transport hazard class Packing group Classification Code Hazard Identification Number Labels	 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (5-Chloro-2-methyl-4-isothiazolin-3-one) 8 II C3 80 8 	

Environmental hazards

: no

RID

UN number Proper shipping name	 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S (5-Chloro-2-methyl-4-isothiazolin-3-one) 	3.
Transport hazard class	: 8	
Packing group	: 11	
Classification Code	: C3	
Hazard Identification Number	: 80	
Labels	: 8	
Environmental hazards	: no	
Special precautions for user	: none	
Transport in bulk according to An- nex 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.

EPA Registration number	:	6836-258
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.
		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)
Copper dinitrate	3251-23-8	100	62500

SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

SARA 313

Components	CAS-No.	Concentration
Magnesium nitrate	10377-60-3	1.73 %

US State Regulations

Massachusetts Right To Know



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Components	CAS-No.
Magnesium nitrate	10377-60-3

Pennsylvania Right To Know

Components	CAS-No.
Magnesium nitrate	10377-60-3

New Jersey Right To Know

Components	CAS-No.
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

Full text of other abbreviations

LIGEL*

: Lonza Internal Guidance Exposure Level

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR -(Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH -Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date



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.

Date format

: yyyy/mm/dd

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