

Isocil™ WT

Version 1.0

MSDS Number: 000000006452

Revision Date: 2015.06.01

SECTION 1. IDENTIFICATION

Product name : Isocil™ WT
Product code : 000000006452

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 : Wood preservatives

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Acute toxicity (Oral) : Category 3
Acute toxicity (Inhalation) : Category 3
Skin corrosion : Category 1B
Serious eye damage : Category 1
Skin sensitisation : Category 1
Specific target organ toxicity -
single exposure : Category 3 (Respiratory system)

GHS Label element

Hazard pictograms : 

Signal word : Danger

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- Hazard statements : H301 + H331 Toxic if swallowed or if inhaled
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
- Precautionary statements : **Prevention:**
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash 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.
- Response:**
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
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.
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.
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
- Storage:**
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
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 (%)
2-Octyl-2H-isothiazol-3-one	26530-20-1	43.60 - 46.40
Propane-1,2-diol	Propylene Glycol	52.90 - 56.20

SECTION 4. FIRST AID MEASURES

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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.
Most important symptoms and effects, both acute and delayed	: No information available.
Notes to physician	: No information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water spray Dry powder 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.

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 closed when not in use.
- Recommended storage temperature : 0 - 50 °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
- Remarks : Wear suitable gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- 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.
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : light yellow
- Odour : mild
- Odour Threshold : no data available
- pH : 3.5

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Melting point/range	:	no data available
Boiling point/boiling range	:	188 °C
Flash point	:	96 °C Method: Pensky-Martens Closed Tester (ASTM D 93)
Evaporation rate	:	no data available
Upper explosion limit	:	12.5 %(V)
Lower explosion limit	:	2.6 %(V)
Vapour pressure	:	0.1 hPa (20 °C)
Relative vapour density	:	no data available
Relative density	:	no data available
Density	:	no data available
Solubility(ies) Water solubility	:	no data available
Partition coefficient: n- octanol/water	:	no data available
Auto-ignition temperature	:	371 °F
Decomposition temperature	:	no data available
Viscosity Viscosity, dynamic	:	< 40 mPa.s (20 °C)
Viscosity, kinematic	:	no data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Stable under normal conditions.
Conditions to avoid	:	no data available
Incompatible materials	:	Ammonia Amines Strong oxidizing agents Reducing agents
Hazardous decomposition products	:	Hydrogen chloride gas Nitrogen oxides (NOx) Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

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Information on likely routes of exposure : Inhalation
Ingestion
Skin
Eyes

Acute toxicity

Acute oral toxicity (LD50) : 279 mg/kg
Species: Rat

Acute inhalation toxicity (LC50) : 0.6 mg/l
Species: Rat
Exposure time: 4 h

Acute dermal toxicity (LD50) : > 2,000 mg/kg
Species: Rabbit

Skin corrosion/irritation

Skin irritation : Corrosive
Species: Rabbit

Serious eye damage/eye irritation

Eye irritation : Corrosive

Respiratory or skin sensitisation

Sensitisation : Species: Guinea pig
Result: Sensitising

Further information

Remarks: May cause irritation of respiratory tract.
May cause irritation of the mucous membranes.

The following toxicological data refer to:**Propane-1,2-diol (CAS-No.: 57-55-6)****Acute toxicity**

Acute oral toxicity (LD50) : 20,000 - 33,700 mg/kg
Species: Rat

Acute dermal toxicity (LD50) : 20,800 mg/kg
Species: Rabbit

Skin corrosion/irritation

Skin irritation : non irritant
Species: Rabbit
Assessment: No skin irritation

Serious eye damage/eye irritation

Eye irritation : mild irritant
Species: Rabbit
Assessment: No eye irritation

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Respiratory or skin sensitisation

Sensitisation : Test Type: Draize Test
Species: Humans
Result: not sensitizing

Germ cell mutagenicity

Genotoxicity in vitro : negative
Ames test, Salmonella typhimurium
Metabolic activation: yes

negative
Chromosome aberration test in vitro, Human lymphocytes
Metabolic activation: yes Method: OECD Test Guideline 473
GLP: yes

Genotoxicity in vivo : negative
In vivo micronucleus test
Species: Mouse

Carcinogenicity

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

no data available

Persistence and degradability

no data available

Bioaccumulative potential**Components:****Propane-1,2-diol**

Partition coefficient: n-octanol/water : log Pow: -0.92

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Mobility in soil

no data available

Other adverse effects

Additional ecological information : Information given is based on data on the components and the ecotoxicology of similar products.

The following ecotoxicological data refer to:**Propane-1,2-diol** (CAS-No.: 57-55-6)**Ecotoxicity**

- Toxicity to fish (LC50) : 51,600 mg/l
Species: *Oncorhynchus mykiss* (rainbow trout)
Acute toxicity
Exposure time: 96 h
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (EC50) : 43,500 mg/l
Species: *Daphnia magna* (Water flea)
Immobilization
Exposure time: 48 h
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
- Toxicity to algae (EC50) : 19,000 mg/l
Species: *Pseudokirchneriella subcapitata* (green algae)
Growth inhibition
Exposure time: 72 h
Test Type: Growth inhibition
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

Persistence and degradability

- Biodegradability : Test Type: Oxygen consumption
Result: Readily biodegradable
Biodegradation: 64 %
Exposure time: 5 d
- Stability in water : Test Type: Abiotic degradation

Bioaccumulative potential

no data available

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Mobility in soil

no data available

Other adverse effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

- Waste from residues : Dispose of in accordance with local regulations.
Material to be disposed of is classified as a D002 hazardous waste with a reportable quantity (RQ) of 100 lbs. of total isothiazolinone. Can be incinerated, when in compliance with local regulations.
- Contaminated packaging : CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.
Do not burn, or use a cutting torch on, the empty drum.
Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION**IATA**

- UN number** : 2922
Proper shipping name : Corrosive liquid, toxic, n.o.s.
(2-Octyl-2H-isothiazol-3-one)
Transport hazard class : 8
Packing group : II
Labels : 8 (6.1)
Environmental hazards : no

IMDG

- UN number** : 2922
Proper shipping name : Corrosive liquid, toxic, n.o.s.
(2-Octyl-2H-isothiazol-3-one)
Transport hazard class : 8
Packing group : II
Labels : 8 (6.1)
EmS Number 1 : F-A
EmS Number 2 : S-B
Environmental hazards : Marine pollutant: no

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ADR

UN number : 2922
Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S.
(2-Octyl-2H-isothiazol-3-one)
Transport hazard class : 8
Packing group : II
Classification Code : CT1
Hazard Identification Number : 86
Labels : 8 (6.1)
Environmental hazards : no

RID

UN number : 2922
Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S.
(2-Octyl-2H-isothiazol-3-one)
Transport hazard class : 8
Packing group : II
Classification Code : CT1
Hazard Identification Number : 86
Labels : 8 (6.1)
Environmental hazards : no

DOT

UN number : 2922
Proper shipping name : Corrosive liquids, toxic, n.o.s.
(2-Octyl-2H-isothiazol-3-one)
Transport hazard class : 8
Packing group : II
Labels : 8 (6.1)
Emergency Response Guidebook : 154
Number
Environmental hazards : no

TDG

UN number : 2922
Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S.
(2-Octyl-2H-isothiazol-3-one)
Transport hazard class : 8
Packing group : II
Labels : 8 (6.1)
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

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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.
 Harmful if inhaled.
 Corrosive. Causes skin burns.
 Corrosive. Causes irreversible eye damage.
 This pesticide is toxic to fish.
 This pesticide is toxic to aquatic invertebrates.
 This pesticide is toxic to oysters and shrimp.

EPCRA - Emergency Planning and Community Right-to-Know Act

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.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations**Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Propane-1,2-diol	Propylene Glycol
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Pennsylvania Right To Know

Propane-1,2-diol	Propylene Glycol	50 - 70 %
2-Octyl-2H-isothiazol-3-one	26530-20-1	30 - 50 %

New Jersey Right To Know

No components are subject to the New Jersey Right to know act

New Jersey Right To Know

Propane-1,2-diol	Propylene Glycol	50 - 70 %
2-Octyl-2H-isothiazol-3-one	26530-20-1	30 - 50 %

California Prop 65

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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

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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.