LONZA INC.
90 BORLINE ROAD
ALLENDALE, NEW JERSEY 07401 USA
EMERGENCY TEL NO. 309-697-7200

Lonza

HEALTH	3
FLAMMABILITY	1
REACTIVITY	0

UN3265
CORROSIVE LIQUID, ACIDIC. ORGANIC, N.O.S. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)

CORROSIVE 8

STATE OF HAWAII
Department of Agriculture
ACCEPTED
LICENSE NO. 9899.67

Manufactured for Lonza Inc.

ISOCIL™ RW 1.5

INDUSTRIAL MICROBIOCIDE FOR USE IN RECIRCULATING WATER COOLING TOWERS, WOOD, MOLD AND MILDEW CONTROL, PULP AND PAPER MILLS, OIL FIELD INJECTION WATERS AND AIR WASHER SYSTEMS

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER-PELIGRO

CORROSIVE. Causes irreversible eye damage or skin burns. May be fatal if absorbed through skin. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This chemical is toxic to terrestrial and aquatic plants, fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders and others exposed to this product must wear:
- Coveralls over long-sleeved shirt and long pants.
- Chemical resistant gloves (such as or made of any waterproof material).
- Socks and chemical resistant footwear
- Goggles or face shield
- Chemical resistant apron

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users must:
- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly.

Active Ingredients:	
5-Chloro-2-methyl-4-isothiazolin-3-one	1.11%
2-Methyl-4-isothiazolin-3-one	0.39%
Inert Ingredients	98.50%
Total	100.00%

EPA Reg. No. 6836-258 EPA Est. No. 6836-IL-1

KEEP OUT OF REACH OF CHILDREN

DANGER/PELIGRO

FIRST AID

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison Control Center or doctor or going for treatment.
IF IN EYES: Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes.
IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons.

Isocil RW 1.5 aids in the control of bacterial, fungal and algal slimes in industrial recirculating cooling water systems, oil field injection waters, air washer systems, wood and wood products, and pulp and paper mills.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS

To control bacteria, fungi and algae add Isocil RW 1.5 to the tower basin, distribution box or other point that insures uniform mixing. The frequency of feeding and duration of the treatment will depend upon the severity of the problem. BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

INITIAL DOSE: When the system is noticeably fouled, treat with 150 to 667 ppm of Isocil RW 1.5 (2.25 to 13 ppm active), by adding 1.3 to 7.2 pounds or 19 to 106 fluid ounces of Isocil RW 1.5 for every 1,000 gallons of system water. Repeat as often as necessary until microbial control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, treat with 33 to 233 ppm Isocil RW 1.5 (0.5 to 3.5 ppm active), by adding 0.28 to 1.9 pounds or 4.2 to 29 fluid ounces of Isocil RW 1.5 for every 1,000 gallons of system water. Repeat dosage 2 to 3 times per week, or as frequently as needed to maintain biocontrol.

OIL FIELD INJECTION WATERS

Isocil RW 1.5 controls slime-forming and sulfate-reducing bacteria in oil and gas field water systems, including enhanced recovery injection, drilling, fracturing and completion fluids. This product may be used for terrestrial and offshore drilling muds and packer fluids.
INITIAL DOSE: When the system is noticeably fouled, treat with 150 to 667 ppm of Isocil RW 1.5 (2.25 to 13 ppm active), by adding 53 to 394 pounds or 6.2 to 36 gallons of Isocil RW 1.5 for every 1,000 barrels of system water. Repeat slug dosage every three days, or as frequently as needed to achieve microbial control.
SUBSEQUENT DOSE: When microbial control is evident, treat with 33 to 233 ppm of Isocil RW 1.5 (0.5 to 3.5 ppm active), by adding 12 to 82 pounds or 1.4 to 9.6 gallons of Isocil RW 1.5 for every 1,000 barrels of system water. Repeat slug dosage every seven days, or as frequently as needed to maintain control.

AIR WASHER SYSTEMS

Add Isocil RW 1.5 to the air washer or chill water sump to insure uniform mixing. Use only in industrial airwasher systems that maintain effective mist eliminating components. BADLY FOULED SYSTEMS must be cleaned before treatment is begun.
INITIAL DOSE: When the system is noticeably fouled, treat with 150 to 667 ppm of Isocil RW 1.5 (2.25 to 13 ppm active), by adding 1.3 to 7.2 pounds or 19 to 106 fluid ounces of Isocil RW 1.5 for every 1,000 gallons of system water. Repeat as often as necessary until microbial control is achieved.
SUBSEQUENT INTERMITTENT OR SLUG DOSE: When microbial control is evident, treat with 33 to 233 ppm Isocil RW 1.5 (0.5 to 3.5 ppm active), by adding 0.28 to 1.9 pounds or 4.2 to 29 fluid ounces of Isocil RW 1.5 for every 1,000 gallons of system water. Repeat dosage weekly, or as frequently as needed to maintain biocontrol.
SUBSEQUENT CONTINUOUS FEED DOSE: When microbial control is evident, treat with 33 to 233 ppm Isocil RW 1.5 (0.5 to 3.5 ppm active), by adding continuously 0.28 to 1.9 pounds or 4.2 to 29 fluid ounces of Isocil RW 1.5 for every 1,000 gallons of system makeup water.

WOOD AND WOOD PRODUCTS

Isocil RW 1.5 is used for the protection of wood and wood products such as landscape timbers, fences, posts, terrestrial-use pilings, cross ties, docks, and similar exterior structures from mold and mildew. As a pressure treatment for mold and mildew control for southern yellow pine hemlock, ponderosa pine and other soft woods, treat with 263 to 840 ppm of Isocil RW 1.5 (4.3 to 12.5 ppm active), by adding 2.2 to 7.0 pounds or 33 to 105 fluid ounces of Isocil RW 1.5 for every 1,000 gallons. Thoroughly wet and allow to dry. A single application will provide protection for 12 weeks.

PULP AND PAPER MILLS

Add Isocil RW 1.5 to a point in the system, such as the Beater, Hydropulper, or Fan or Broke storage pumps, that insures uniform mixing. BADLY FOULED SYSTEMS must be cleaned before treatment is begun.
DOSAGE: Add 0.44 to 1.5 pounds of Isocil RW 1.5 per ton (dry basis) of pulp or paper produced as a slug dose. Repeat as often as necessary.

ULTRA FILTRATION UNITS AND NON-MEDICAL/NON-POTABLE REVERSE OSMOSIS SYSTEMS (NOT FOR USE IN CALIFORNIA)

Isocil RW 1.5 is used for the control of bacteria and fungi in ultra filtration units and non-medical/non-potable reverse osmosis systems. Use of Isocil RW 1.5 in potable water or dialysis is prohibited. Add 10 - 333 ppm of Isocil RW 1.5 (0.15 - 5 ppm active ingredient) into industrial ultra filtration or reverse osmosis systems by either continuous feed or periodic injection. Compatibility of Isocil RW 1.5 with reverse osmosis membranes must be confirmed with membrane manufacturers. For the control of bacteria and fungi in carbon beds, add 10 - 333 ppm of Isocil RW 1.5 (0.15 - 5 ppm active ingredient) by either continuous or batch feed. For period in membrane cleaning, add 0.4 - 1.0 lb of Isocil RW 1.5 to every 120 gallon of cleaning solution (6 - 15 ppm active ingredient). Badly fouled systems must be cleaned before treatment is begun.
Isocil RW 1.5 weighs 8.90 pounds per gallon.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
PESTICIDE STORAGE
Open dumping is prohibited. Store in original container in areas inaccessible to children.

PESTICIDE DISPOSAL
Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
CONTAINER DISPOSAL
Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying.
(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 by state and local authorities. DO NOT cut or weld metal containers.
(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.
GENERAL: Consult Federal, State or local disposal authorities for approved alternative procedures.

PROD. NO. (P) ISORW15
LOT NO. (S)
WEIGHT (Q) 440 lb. 200.00 kg

64081-a 20130410

ISOCIL® RW 1.5
WEIGHT (Q) 440 lb. 200.00 kg
PROD. NO. (P) ISORW15
LOT NO. (S)

64081-a 8/15/03

FOR HELP IN A CHEMICAL EMERGENCY CALL CHEMTREC 800-424-9300. BEFORE USING CONSULT MATERIAL SAFETY DATA SHEET