

Date of Issue: 7/13/2015 **QualiChem™ Tin-R "Tin Reagent"** Page 1 of 5

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the Preparation:

ECI p/n: LMO934 QualiChem™ Tin-R "Tin Reagent"

Product use:

Reagent

Company/Undertaking:

Manufacturer:

ECI Technology, Inc. 60 Gordon Drive Totowa, NJ 07512

Emergency Telephone Number During Transportation:

+1-973-890-1114 (USA)

2 HAZARDS IDENTIFICATION

Emergency Overview

There is limited information available on the hazards of this chemical. The health effects listed for this substance are based on information found for compounds of similar structure.

Danger! Large doses, (of concentrated product), may cause stomach upset, substance has low toxicity by ingestion. Product may also cause mild skin and eye irritation. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.



NFPA rating: 1-0-0

3 COMPOSITION / INFORMATION ON INGREDIENTS

Component	Synonym	CAS No.	Wt %	EINECS No.	Hazard of Pure Substance
Complexing Agent			<10		N/A
Water		7732-18-5	Balance	231-791-2	Not Hazardous

4 FIRST AID MEASURES

Emergency and First Aid Procedures:

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Get medical attention.



QualiChem™ Tin-R "Tin Reagent"

Page 2 of 5

Skin Contact: Wash areas of contact with soap and water for at least 15 minutes. Call

a physician if irritation develops.

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

5 FIRE FIGHTING MEASURES

Fire Hazards: Product is not considered to be a fire or explosion hazard.

Suitable Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Unsuitable Fire Extinguishing Media: Not Available

Special Fire Fighting Procedures: Use normal procedures/instructions. Wear self-contained breathing apparatus with

full face piece in positive pressure mode and proper protective clothing.

Unusual Fire and Explosion Hazards: None **Decomposition Products:** Not Available

6 ACCIDENTAL RELEASE MEASURES

General Information: When cleaning up spills, use proper personal protective equipment as indicated in Section 8. Avoid discharge to drains and to the environment.

Spills/Leaks: Absorb with suitable material and treat as normal refuse. Small amounts of the liquid may be flushed to the drain with excess water. Always dispose of in accordance with local regulations.

7 HANDLING AND STORAGE

Handling: Avoid product contact with skin, eyes, and clothing. Avoid ingestion and inhalation of vapors. Wear protective clothing including chemical gloves and eye protection. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Operations should be conducted in a well ventilated area or hood. **Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area.

B EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Minimize exposure. Safety glasses. Lab coat. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.



QualiChem™ Tin-R "Tin Reagent"

Page 3 of 5

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor Clear Vapor Pressure (mmHg) No data Flash Point °C (°F) Not applicable Vapor Density (air =1) No data Auto Ignition Temp °C (°F) Not applicable **Evaporation Rate** No data Boiling Point °C (°F) >100 (212) No data % Volatiles by volume Melting Point °C (°F) Not applicable Physical State (@STP) Liquid **Partition Coefficient** No data рН 4-6 Specific Gravity (H₂O=1) 1.0 - 1.1Solubility (H₂O) miscible

10 STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use and storage

Hazardous Reactions: None known

Conditions to Avoid: Excess heat, incompatible materials **Incompatible Materials:** Reactive with strong oxidizing agents.

11 TOXICOLOGICAL INFORMATION

A. Toxicity of Components

Component A LD50: Not available. LC50: Not

available.

Carcinogenicity: No NTP: No IARC: No Z list: No OSHA Reg: No

Reproductive Effects: None reported

B. Effects of Overexposure:

Inhalation: None expected

Skin Contact: May cause slight irritation **Eye Contact:** May cause slight irritation

Skin Absorption: None expected

Ingestion: May cause nausea, vomiting, diarrhea

Chronic Effects: No data
Target Organs: Eyes, Skin

Likely Routes of Exposure: Skin contact, eye contact.

Medical Conditions Generally Aggravated by Exposure: Skin Disorder

12 ECOLOGICAL INFORMATION

Aquatic and Terrestrial Toxicity: No data
Persistence and degradability: No data
Bioaccumulative potential: No data
Mobility in soil: No data
Other adverse effects: No data



QualiChem™ Tin-R "Tin Reagent"

Page 4 of 5

13 DISPOSAL CONSIDERATIONS

Disposal Procedure: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14 TRANSPORT INFORMATION

UN/NA: No

Not Regulated – Non-hazardous for air, sea and road freight

Proper Shipping Name:

Hazard Class:

Packing Group:

Marine Pollutant:

Emergency Response Guide (ERG):

15 REGULATORY INFORMATION

Federal and State Regulations: TSCA 8(b) inventory

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical

Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC): This product is not classified according to the EU regulations. Not applicable.

<u>Japan</u>

Classification, labeling and MSDS were prepared in conformance with JIS Z 7250:2005, JIS

Z 7251:2006 and GHS:2nd Edition

Components are existing chemicals under the Chemical Substance Control Law

16 OTHER INFORMATION

Product Warning Label

EECI-LMO934J-1 QualiChem™ Tin-R "Tin Reagent" (1L)

EECI-LMO934J-05 Qualichem™ Tin-R "Tin Reagent" (500ml)

EECI-LMO934J-4 Qualichem™ Tin-R "Tin Reagent" (4L)

Hazard Symbols: Health Hazard

Hazard Statement: None Signal Word: None

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 0 Reactivity: 0



QualiChem™ Tin-R "Tin Reagent"

Page 5 of 5

Precautionary Statements:

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user.

Read MSDS before handling this product.

Use personal protective equipment as required.

If exposed or concerned: Get medical attention.

Store locked up. Dispose of container in accordance with government regulations.

Disclaimer

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