

## \*\*\* MATERIAL SAFETY DATA SHEET \*\*\*

## FREEZING POINT CALIBRATION STANDARDS STD 408, 512, 600

## \*\*\* SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \*\*\*

Product Name: Freezing Point Calibration Standards STD 408, 512, 600  
 Product Code: STD 422, 530, 621

Company Identification: QuadraChem Laboratories Ltd  
 Riverside  
 Forest Row Business Park  
 Forest Row  
 East Sussex RH18 5DW, England

Company Phone Number: +44 (0) 01342 820820

## \*\*\* SECTION 2 – COMPOSITION, INFORMATION ON INGREDIENTS \*\*\*

CAS #	Chemical Name	Percent	EINECS #
7647-14-5	Sodium chloride	≤1%	231-598-3
	Water	99%	
	Organomercury compound	<0.05%	

Hazard symbols:

Risk Phrases:

## \*\*\* SECTION 3 – HAZARDS IDENTIFICATION \*\*\*

## EMERGENCY OVERVIEW

Hazardous Component - organomercury compound present at a concentration of <0.05%w/w  
 Organomercury compounds in general are very toxic by inhalation, in contact with skin or if  
 swallowed. Danger of cumulative effects. Avoid contact with skin and eyes.

## \*\*\* SECTION 4 – FIRST AID MEASURES \*\*\*

Eyes:

Flush eyes with plenty of water for at least 10 minutes occasionally lifting the upper  
 and lower lids. Get medical aid immediately.

Skin:

Wash with plenty of water. Remove contaminated clothing and wash before re-use.

Ingestion:

Drink plenty of water and get medical aid immediately.

Inhalation:

Notes to Physician:

Treat symptomatically and supportively.

\*\*\* SECTION 5 – FIRE FIGHTING MEASURES \*\*\*

General Information:  
Not Combustible

\*\*\* SECTION 6 – ACCIDENTAL RELEASE MEASURES \*\*\*

Small quantities of soluble mercury compounds can be run to waste at high dilution. (NB The compound is already present at high dilution in the product as produced).

\*\*\* SECTION 7 – HANDLING AND STORAGE \*\*\*

Handling:  
Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Avoid ingestion.

Storage:  
Store in a cool, dry place. Keep from freezing. Store in a tightly closed container.

\*\*\* SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*

Engineering Controls:  
N/A

Personal Protective Equipment:

Eyes:  
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR, 190, 133 or European Standard EN166.

Skin:  
Wear appropriate protective gloves to prevent skin exposure.

Clothing:  
Wear appropriate clothing to prevent skin exposure.

Respirators:  
N/A

\*\*\* SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES \*\*\*

Physical State:	Colourless liquid
Odour:	odourless
pH:	No information available
Vapour Pressure:	No information available
Viscosity:	No information available
Boiling Point:	No information available
Freezing/Melting Point:	
Decomposition Temperature:	N/A
Solubility:	Miscible in water
Specific Gravity/Density:	

\*\*\* SECTION 10 – STABILITY AND REACTIVITY \*\*\*

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials

Incompatibilities with other materials:

Acid chlorides; acid anhydrides; strong oxidising agents; strong acids; strong alkalis, aluminium, reducing agents

\*\*\* SECTION 11 – TOXICOLOGICAL INFORMATION \*\*\*

For the Organomercury component:

Oral, rat : LD50 = 75mg/kg

Acute toxicity

Danger of skin absorption

Risk of sensitization with allergic manifestations in predisposed persons

Carcinogenicity: no information available

Long term exposure leads to disorders and damage to the nervous system

Pregnant women should not be exposed to this compound. Evidence of reproductive effects.

\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*

Organomercury compounds are acutely toxic to aquatic organisms and terrestrial animals. The following applies to organic Hg compounds in general; biological effects; fish; *S. gairdnerii* toxic from 0.002mg/L up. Do not allow to enter drinking water supplies, waste water or soil.

\*\*\* SECTION 13 – DISPOSAL CONSIDERATIONS \*\*\*

Dispose of in a manner consistent with federal, state and local regulations.

\*\*\* SECTION 14 – TRANSPORT INFORMATION \*\*\*

**CDG/CPL      IATA                  IMO    RID/ADR      CANADIAN TDG**

Shipping Name:      No information available - (applicable to all the above headings)

Hazard Class:

UN Number:

Packing Group:

\*\*\* SECTION 15 – REGULATORY INFORMATION \*\*\*

European/International Regulations

European Labelling in Accordance with EC Directives:

The organomercury compound is very toxic in contact with skin and if swallowed. Danger of cumulative effects. Very toxic to aquatic organisms, may cause long term adverse effects in the environment. Keep away from food, drink and animal feeding stuffs. After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing. In case of accident or if you feel unwell seek medical advice immediately.

**Because the concentration of the organomercury compound in the product is <0.05% the following applies, ref. 'Chemicals (hazard information and packaging for supply) regulations 1994' :**

**Hazard symbols:     none required**  
**Risk phrases:        none required**  
**Safety phrases:     none required**

\*\*\* SECTION 16 – OTHER INFORMATION \*\*\*

MSDS Creation Date: February 28, 2000

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