

# Material Safety Data Sheet

## SECTION 1 – MANUFACTURER INFORMATION

**Product name:** VALIDATE<sup>®</sup> Chem 4 Calibration Verification Test Set; VALIDATE<sup>®</sup> Chem 5 Calibration Verification Test Set; VALIDATE<sup>®</sup> Chem 21 Calibration Verification Test Set, VALIDATE<sup>®</sup> GCE Calibration Verification Test Set

**Product number(s):** 104bc, 104ro, 104db, 104ri, 104ab, 104sm, 105bc, 105ro, 105db/ri, 105sm, 201bc (bili set and enz set), 201sd (bili set and enz set), 201aw (bili set) and 1500.

**Manufacturer:** Maine Standards Company  
**Address:** 765 Roosevelt Trail  
Windham, ME 04062

**Phone:** 800-377-9684  
**Fax:** 207-892-2266

The above listed Validate<sup>®</sup> products contain ~33% Ethylene Glycol. Ethylene Glycol is not a known carcinogen. The lethal dose for humans is ~100mL (1/3 cup).

## SECTION 2 – HAZARDOUS INGREDIENTS

Chemical Name	CAS #	Chemical Formula	Synonyms
Ethylene Glycol	107-21-1	C <sub>2</sub> H <sub>4</sub> (OH) <sub>2</sub>	1,2-Ethanediol; Glycol; 1,2-Dihydroxyethane; Ethylene Alcohol; Ethulene Dihydrate

## FIRST AID

**WARNING - HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM.**

<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Get medical attention immediately.
<b>Skin</b>	Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.
<b>Eyes</b>	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

<b>DOT Hazard Class</b>	Not regulated
<b>Potentially Biohazardous Ingredients</b>	See package inserts for information relating to biohazard materials.

## SECTION 3 – PHYSICAL DATA

<b>Boiling Point (°F)</b>	Not applicable	<b>Appearance and Odor</b>	Pale yellow liquid; slight odor
<b>Vapor Pressure (mm of Hg)</b>	Not applicable	<b>Specific Gravity @ 20°C</b>	Not applicable
<b>Vapor Density (air = 1)</b>	Not applicable	<b>Evaporation Rate</b>	Not applicable
<b>Solubility</b>	Not applicable	<b>Melting Point</b>	Not applicable

## SECTION 4 – FIRE AND EXPLOSION DATA

<b>Flash Point</b>	Not applicable	<b>NFPA Rating:</b> Health: 2
<b>Extinguishing Media</b>	Dry chemical, foam or carbon dioxide	Flammability: 1
<b>Special Procedures</b>	Not applicable	Reactivity: 0
<b>Unusual Fire / Explosion Hazards</b>	Not known	

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## SECTION 5 – HEALTH HAZARD DATA

<b>Health Hazards (acute and chronic)</b>		Product is not expected to present a health hazard when employing good laboratory practices.		
<b>Medical Conditions Generally Aggravated by Exposure</b>		Not known		
<b>Routes of Entry</b>	<b>Eyes:</b> Yes	<b>Skin:</b> Yes	<b>Ingestion:</b> Yes	<b>Inhalation:</b> No

## SECTION 6 – STABILITY AND REACTIVITY DATA

<b>Stability</b>	Stable under ordinary conditions of use and storage
<b>Incompatibility</b>	Not known
<b>Decomposition</b>	Not known
<b>Hazardous Polymerization</b>	Not known

## SECTION 7 – SPILL OR LEAK PROCEDURES

<b>Spill Procedures</b>	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in a suitable container.
<b>Waste Disposal Procedures</b>	Dispose of according to local, state and federal regulations.

## SECTION 8 – SPECIAL PROTECTION INFORMATION

<b>Respiratory</b>	None
<b>Protective Clothing</b>	Normal laboratory apparel including lab coat, gloves and eye protection
<b>Ventilation</b>	Mechanical (general)
<b>Hygienic Practices</b>	Wash hands with soap and water after handling

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