

Material Safety Data Sheet

SECTION 1 – MANUFACTURER INFORMATION

Product name: VALIDATE® GC4 Calibration Verification /Linearity Test Set
Product number: 1400

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

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

The above listed Validate® product contains ~ 2.0% Dimethyl Sulfoxide (DMSO). DMSO is not a known carcinogen.

SECTION 2 – HAZARDOUS INGREDIENTS

Chemical Name	CAS #	Chemical Formula	Synonyms
Dimethyl Sulfoxide	67-68-5	C ₂ H ₆ OS	DMSO, Methyl Sulfoxide, Sulfinylbismethane,

FIRST AID Target organs-CNS, eyes and skin

Inhalation	Remove to fresh air. If breathing becomes difficult, give oxygen and call a physician.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Contact a physician.
Skin	Wash liberally with water. Remove contaminated clothing. Contact a physician.
Eyes	Flush eyes with water for 15 minutes. Contact a physician.

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

SECTION 3 – PHYSICAL DATA

Boiling Point (°C)	189	Appearance and Odor	Clear, colorless
Vapor Pressure (mm of Hg @ 20°C)	0.46	Specific Gravity @ 20°C	1.100 g/mL
Vapor Density (air = 1)	2.7	Evaporation Rate	Not Applicable
Solubility	Soluble	Melting Point (°C)	18.4

SECTION 4 – FIRE AND EXPLOSION DATA

Flash Point (°C)	87.8	NFPA Rating: Health: 2
Extinguishing Media	Water spray, foam, dry chemical or carbon dioxide	Flammability: 2
Special Procedures	Combustible liquid and vapor	Reactivity: 0
Unusual Fire / Explosion Hazards	Not known	

SECTION 5 – HEALTH HAZARD DATA

Health Hazards (acute and chronic)	Product is not expected to present a health hazard when employing good laboratory practice. May cause mild eye irritation. Chronic exposure may cause CNS effects and dermatitis.			
Medical Conditions Generally Aggravated by Exposure	Not known			
Routes of Entry	Eyes: Yes	Skin: Yes	Ingestion: Yes	Inhalation: Yes

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SECTION 6 – STABILITY AND REACTIVITY DATA

Stability	Stable under ordinary conditions of use and storage. Hygroscopic-absorbs moisture from water or air.
Incompatibility	Strong oxidizing agents, strong acids, strong bases, acid chlorides
Decomposition	Carbon monoxide, oxides of sulfur, carbon dioxide, formaldehyde, dimethyl sulfide
Hazardous Polymerization	Will not occur

SECTION 7 – SPILL OR LEAK PROCEDURES

Spill Procedures	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in a suitable container. Remove sources of ignition. Provide ventilation.
Waste Disposal Procedures	Dispose of according to local, state and federal regulations.

SECTION 8 – SPECIAL PROTECTION INFORMATION

Respiratory	Follow local, state and federal regulations regarding respirator usage.
Protective Clothing	Normal laboratory apparel including lab coats, gloves and eye protection. Prevent skin exposure.
Ventilation	Use adequate ventilation- mechanical (general)
Hygienic Practices	Wash hands with soap and water after handling

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