

1. Product and Company Identification

Product Identifier

Product Name: Mission CLINICAL Calibrator

Product Code: DD-93100D
(DD-93100AD Contains Human source material. Treat as potentially infectious)
(DD-93100BD contains 5-Chloro-2-methyl-4-isothiazolin-3-one 2-Methyl-4-isothiazolin-3-one 1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione)

Recommended Use: For calibration of clinical chemistry assays on a broad range of automatic analyzers used in the clinical chemistry laboratory

Company

Diamond Diagnostics Inc.
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Holliston, MA 01746

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2. Hazards Identification

GHS- Classification

Classification

Flammable, Corrosive, Irritant, Toxic, Environmentally Damaging, Health Hazard



Hazard Statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long-lasting effects.

Precautionary Statements

P260	Do not breathe dust/fumes/gas/mist/vapors/spray.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P285	In case of inadequate ventilation wear respiratory protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
P304 + P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P321	Specific treatment (see ... on this label).
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.
 P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
 P363 Wash contaminated clothing before reuse.
 P391 Collect spillage.
 P403 + P233: Store in a well ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/Information on ingredients

Chemical Name	EC No.	Reach Reg. No.	CAS-No.	Weight %	Classification
5-Chloro-2-methyl-4-isothiazolin-3-one	247-500-7	Not available	26172-55-4	< 0.01%	Acute Tox. 4; Skin Corr, 1B; Eye Dam. 1; Resp. Sens. 1; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H314, H317, H334, H410
2-Methyl-4-isothiazolin-3-one	220-239-6	Not available	2682-20-4	< 0.005%	Acute Tox. 4; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; STOT SE 3; Aquatic Acute 1; H302, H314, H317, H331, H335, H400
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	229-222-8	Not available	6440-58-0	< 0.15%	Acute Tox. 4; Eye Irrit. 2A; Resp Sens 1; H302, H319, H334

4. First Aid Measures

Eye Contact Flush affected area with copious amount of water for at least 15 minutes.

Skin Contact Wash affected area with copious amounts of soap and water. If irritation persists seek medical aid.

Inhalation Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Ingestion Rinse mouth with water, drink large quantities of water and seek medical aid.

Notes to Physician Treat symptomatically

5. Fire-Fighting Measures

Flammable Properties No information available

Flash Point No information available

Suitable Extinguishing Media Suitable for surrounding fire.

Hazardous Combustion Products No information available

Protective Equipment and Precautions for Firefighters Self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

Personnel Precautions Use personnel protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Methods for Containment & Cleaning Soak up with non-combustible absorbent material. Rinse affected area with copious amounts of water. Dispose of in accordance with applicable federal, state, and local laws and regulations.

Environmental Precautions Do not let product enter drains.

7. Handling and Storage

Handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition – No Smoking. Take measures to prevent buildup of electrostatic charge.
Storage	Keep container closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Non-combustible, corrosive hazardous materials.
Specific use	See Section 1 – Recommended Use

8. Exposure Controls / Personnel

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
5-Chloro-2-methyl-4-isothiazolin-3-one 26172-55-4	Not listed	Not listed	Not listed
2-Methyl-4-isothiazolin-3-one 2682-20-4	Not listed	Not listed	Not listed
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione 6440-58-0	Not listed	Not listed	Not listed

Engineering Measures	Showers Eye Wash Stations Ventilation Systems
Personnel Protective Equipment	
Eye/Face Protection	Safety goggles with side-shields
Skin Protection	Wear protective gloves/clothing
Respiratory Protection	If exposure limits are exceeded or irritation is experienced; NISOH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required high airborne containment concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures	Complete suit protecting against chemicals, Flame resistant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Environment Exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and Chemical Properties

Appearance	Clear Liquid
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point	No information available
Freezing Point	0°C
Initial Boiling Point	Approx. 100 °C
Flash Point	Not determined
Evaporation Rate	No information available
Flammability (solid, gas)	Not applicable
Upper/Lower flammability or explosive limits	Not applicable
Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available

Water Solubility	No information available
Partition coefficient: (n-octanol/water)	No information available
Auto-ignition temperature	No information available
Decomposition Temperature °C	No information available
Viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

10. Stability and Reactivity

Reactivity	No information available
Chemical Stability	Stable
Incompatible Materials	Strong acids and bases
Hazardous Decomposition Products	Formaldehyde will be released when heated to 90°C
Hazardous Polymerization:	Will not occur
Conditions to avoid:	Avoid exposure to heat and light
Suggested Storage:	Store as recommended on product label

11. Toxicological Information

Acute Toxicity	No information available
Chronic Toxicity	Frequent and prolonged contact with the skin can cause irritation. May cause eye irritation. If ingested may cause discomfort, nausea or vomiting. May cause allergic response in persons with preexisting sensitivity to formaldehyde.
Target Organ Effects	No information available
Carcinogenicity	IARC: 2A – Group 2A: Probably carcinogenic to humans (magnesium nitrate hexahydrate) ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

12. Ecological Information

Ecotoxicity	Toxic to fish, daphnia and other aquatic invertebrates.
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13. Disposal Considerations

Waste Disposal Method	In accordance with applicable federal, state, and local laws and regulations.
Contaminated Packaging	In accordance with applicable federal, state, and local laws and regulations.

14. Transport Information

IATA	No Restrictions
DOR	No Restrictions

15. Regulatory Information

SARA 302 Components	No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302.
SARA 313 Components	The following components are subject to reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	Acute Health Hazard, Chronic Health Hazard

Massachusetts right to know components

Magnesium nitrate hexahydrate	CAS-No. 13446-18-9	Revision Date: 1993-04-24
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Pennsylvania right to know components

Magnesium nitrate hexahydrate	CAS-No. 13446-18-9	Revision Date: 1993-04-24
2-Methyl-4-isothiazolin-3-one	2682-20-4	
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	6440-58-0	

New Jersey right to know components

Magnesium nitrate hexahydrate	CAS-No. 13446-18-9	Revision Date: 1993-04-24
5-chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	
Magnesium chloride	7786-30-3	
2-Methyl-4-isothiazolin-3-one	2682-20-4	
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	6440-58-0	

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

Issuing Date	31-December-2008
Revision Date	30-November-2015
Revision Note	No information available
Recommended Restrictions	No Restrictions

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in text.