

Vernier Software & Technology

Material Safety Data Sheet (MSDS)

Section 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

StablCal® Formazin Standard 100 NTU

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Section 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Hexamethylenetetramine	Demineralized Water	Formazin Polymer
CAS#: 100-97-0	CAS#: 7732-18-5	CAS#: Not available
Percent Range: 1.0 to 10.0	Percent Range: 90.0- to 100.0	Percent Range: <0.1

Section 3 — HAZARDS IDENTIFICATION

Turbid, milky suspension. Odorless.
May cause eye and skin irritation. May cause allergic skin reaction. Ingestion may cause gastrointestinal irritation or kidney damage.

Section 4 — FIRST AID MEASURES

Call a physician, seek medical attention for further treatment, observation and support after first aid.
Eye: Immediately flush with fresh water for 15 minutes. Call a physician.
External: Wash skin with soap and plenty of water.
Internal: Induce vomiting using syrup of ipecac or by sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician immediately.

Section 5 — FIRE FIGHTING MEASURES

This material will not burn. During a fire, this product decomposes to form toxic gases. As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear. Evacuate area and fight fire from a safe distance.

Section 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from area. Absorb spilled liquid with non-reactive sorbent material and sweep up. Place in sealed bag or container and dispose of as normal refuse. Decontaminate the area of the spill with a soap solution. See Sections 8 and 13 for further information.

Section 7 — HANDLING AND STORAGE

Avoid contact with eyes and skin. Do not breathe mist or vapors. Wash thoroughly after handling. Protect from heat.

Section 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron. Use exhaust ventilation to keep airborne concentrations low.

Section 9 — PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Turbid, milky suspension. Odorless.

Solubility: Miscible in water and acid.

pH: 8.14

Boiling Point: 100°C

Formula Weight: not applicable

Section 10 — STABILITY AND REACTIVITY

Stable when stored under proper conditions. Avoid extreme temperatures.

Heating to decomposition releases: ammonia, carbon monoxide, formaldehyde, nitrogen oxides.

Section 11 — TOXICOLOGICAL INFORMATION

LD50: None reported

LC50: None reported

Skin and Eye Irritation Data: none reported

Mutation Data: Hexamethylenetetramine: Cytogenic analysis in human Hela cells @ 1 mmol/L; Oncogenic transformation - hamster kidney - 10 mg/L

Reproductive effects Data: none reported

Hexamethylenetetramine: Oral mouse LDLo = 512 mg/kg

Section 12 — ECOLOGICAL INFORMATION

Hexamethylenetetramine: Water Pollution Factors: BOD₅: 0.015, 0.026, std. dil. sew.

Section 13 — DISPOSAL CONSIDERATIONS

Dilute material with excess water making a weaker than 5% solution. Open cold water tap completely, slowly pour the material to the drain. Flush system with plenty of water. Please consult with state and local regulations for more stringent requirements.

Section 14 — TRANSPORT INFORMATION

Shipping Name: Not regulated

UN Number: N/A

N/A = Not applicable

Hazard Class: N/A

Section 15 — REGULATORY INFORMATION

OSHA: This product meets the criteria for a hazardous substance as defined in the Hazard Communication Standard (29 CFR 1910.1200).

EPA: SARA Title III Section 311/312 Categorization (40 CFR 370) Immediate (Acute) Health Hazard Delayed (Chronic) Health Hazard.

US Inventory Status: All ingredients in this product are listed on the TSCA 8(b) Inventory (40 CFR 710)

Section 16 — OTHER INFORMATION

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