

EMERGENCY # FOR NATIONAL RESPONSE CENTER (800) 424-8802

SECTION 1. CHEMICAL IDENTIFICATION

Product Name: **ELISA Wash Buffer**
Catalog #(s): 527, 650, 651, 652, 676, 528
Synonyms: 10X WB1, WB1, 1X WB1, WB2, WB, Wash Buffer
CAS #: Not applicable to mixtures
Chemical Formula: Not applicable to mixtures; trade secret formulation

SECTION 2. HAZARDS IDENTIFICATION

WB contains a preservative that when concentrated is considered toxic and a possible mutagen that targets the male reproductive organs and thyroid, and causes severe irritation to mucous membranes and the upper respiratory tract (LD50 rat 70mg/kg). However, its concentration in this buffer is very low and may be slightly irritating. WB also contains phosphate buffered saline (PBS) which is a slight irritant to eyes, skin, and respiratory system.

SECTION 3. CHARACTERISTICS

WB is a clear odorless liquid. 10X WB may have crystals.
Boiling point: 100°C / 212°F
Vapor pressure (mm Hg): No data available.
Vapor density: No data available.
Solubility in water: Aqueous.
Specific gravity: Not applicable.
% Volatile by volume: Not applicable.
Evaporation rate: No data available.
pH: 1X = 6.5-7.4; 10X = 6.7-7.2

SECTION 4. STORAGE, HANDLING, STABILITY

10X WB is stable for 24 months when stored at RT or longer 2°C - 8°C. 1X WB is stable for 12 months when stored at RT or longer 2°C - 8°C. Precipitates may form – heat gently until dissolved, do not boil WB. Hazardous polymerization will not occur. Avoid contact with strong oxidizing agents, strong acids, strong bases, and strong reducing agents. It may produce carbon monoxide, carbon dioxide, nitrogen oxides and hydrogen chloride gas upon decomposition. WB is considered non-hazardous for transport by DOT.

SECTION 5. SAFETY CONTROL MEASURES

Gloves, eyewear, and standard laboratory protective clothing are recommended. Safe laboratory practices should be followed.

SECTION 6. HEALTH HAZARD DATA

May enter the body through ingestion, eye, and skin contact. May be irritating to eyes, skin, mucous membranes, and the upper respiratory tract. May cause allergic reactions. Contains a toxic preservative that targets the male reproductive organs and thyroid. Avoid prolonged or repeated exposure. The toxicological effects have not been thoroughly investigated.

SECTION 7. FIRST AID MEASURES

Remove contaminated clothing and shoes, and wash before reuse.
Skin: Wash skin thoroughly with soap and water.
Eyes: Flush with water for at least 15 minutes.
Ingestion: If conscious, give large amounts of water and seek medical attention.
Inhalation: Remove to fresh air. If not breathing, administer CPR. If breathing is difficult, give oxygen.

SECTION 8. FIRE/EXPLOSION HAZARD DATA

WB is not flammable. It is not a fire hazard nor an explosion hazard. Use any means suitable for extinguishing surrounding fire. It is not necessary to use any special firefighting procedures. Water spray, carbon dioxide, dry chemical powder or appropriate foam can all be used.

SECTION 9. ACCIDENTAL RELEASE MEASURES

Wear protective clothing to guard against eye and skin contact. Wash all affected areas with large volumes of water. Collect liquid and flush down the drain with copious amounts of water, or absorb with dry material appropriate for the surrounding materials and place in a regular waste container. Dispose of all waste in accordance with all national, state, and local regulations.