

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

### CHEMICAL IDENTIFICATION

Product Name: **5x Antigen Coating Buffer (CB2)**  
Catalog #(s): 5136, 6246, 6247, 6248, 6249, 6250, 5137  
Synonyms: 1x CB2, 5x CB2, Antigen-Down ELISA Coating Buffer  
CAS #: Not applicable to mixtures  
Chemical Formula: Not applicable to mixtures; trade secret formulation

### HAZARDS IDENTIFICATION

5x CB2 contains 0.5% sodium azide ( $\text{NaN}_3$ , ingredient CAS# 26628-22-8) that when concentrated is considered very toxic and is a potential mutagen than targets the nerves, heart, and brain (LD50 oral rat-27mg/kg). However its concentration in this buffer is very low and it may be slightly irritating. Azide forms explosive chemical compounds with lead and copper plumbing; care must be taken to flush waste down drains with copious amounts of water. CB2 also contains phosphate buffered saline (PBS) which is a slight irritant to eyes, skin, and respiratory system.

### CHARACTERISTICS

CB2 is a clear odorless liquid. 5x CB2 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 = 7.5-8.5; 5X = 8.2-8.6

### STORAGE, HANDLING, STABILITY

5x CB2 is stable for over 24 months when stored at RT or longer 2°C - 8°C. 1x CB2 is stable for over 12 months when stored at RT or longer 2°C - 8°C. Precipitates may form – heat gently until dissolved, do not boil CB2. Hazardous polymerization will not occur. Nitrogen oxides may form upon decomposition of  $\text{NaN}_3$ . Avoid contact with acids as very irritating hydrazoic gas may be generated with concentrated  $\text{NaN}_3$ . Avoid contact with copper, lead, silver, mercury, gold, and carbon disulfide as  $\text{NaN}_3$  may form explosive chemical compounds. Flush waste down drains with copious amounts of water. CB2 is considered non-hazardous for transport by DOT.

### SAFETY CONTROL MEASURES

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

### HEALTH HAZARD DATA

May enter the body through ingestion, eye, and skin contact. The toxicological effects have not been thoroughly investigated.

### 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.

### FIRE/EXPLOSION HAZARD DATA

CB2 is neither 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.

### 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.