

# MATERIAL SAFETY DATA SHEET

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**PRODUCTS:** OPA Diluent for Carbamates      **Cat. No.** CB910

## Section I – General

CAS #: [1330-43-4]  
FORMULA:  $\text{Na}_2\text{B}_4\text{O}_7$   
CHEMICAL NAME: Sodium borate  
SYNONYMS: Sodium tetraborate, sodium baborate, sodium pyroborate  
CHEMICAL FAMILY: Aqueous alkali

## Section II – Hazardous Ingredients

1: Not hazardous; contains < 4% wt sodium borate

## Section III – Physical Data

MELTING POINT: Not applicable  
BOILING POINT: 100°C (approximately)  
VAPOR PRESSURE: < 17 mm Hg @ 20°C  
% VOLATILITY BY VOLUME: 96+%  
APPEARANCE: Clear, odorless solution  
SOLUBILITY: Aqueous solution

## Section IV – Toxicity Data

RTECS #: VZ2275000  
RTECS NAME: Sodium tetraborate  
REVIEWS: "Clinical Toxicology of Commercial Products," R.E. Gosselin *et al.*, Eds. 4th ed. (1976) Section III, 63–66. Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data for crystalline sodium borate (99+%) are presented here. CB910 contains < 4% sodium borate. Refer to actual entry in RTECS for complete information

## Section V – Health Hazards and First Aid

ACUTE EFFECTS: Ingestion of 5–10 gm of crystalline sodium borate by young children can cause severe vomiting, diarrhea, shock, and death. Solution will irritate skin, eyes, and mucous membranes.  
CHRONIC EFFECTS: Not established  
EYE CONTACT: Flush with plenty of water for at least 15 minutes; assure adequate flushing

by separating eyelids with fingers. Get medical attention.  
SKIN CONTACT: Rinse with 1% acetic acid to neutralize, followed by water.  
INHALATION: Not applicable  
INGESTION: Give water freely and/or 1% acetic acid, followed by milk. Get medical attention.

#### **Section VI – Fire and Explosion Hazards**

FLASHPOINT: Not flammable  
EXTINGUISHING MEDIA: Water spray  
FIREFIGHTING PROCEDURE: Not applicable  
UNUSUAL HAZARDS: None  
EXPLOSIVE PROPERTIES: Not explosive

#### **Section VII – Reactivity**

GENERAL: Stable  
INCOMPATIBILITIES: Primary and secondary amines will cause non-hazardous deterioration of this solution.  
HAZARDOUS COMBUSTION OR  
DECOMPOSITION PRODUCTS: Will not occur.

#### **Section VIII – Spill or Leak Procedures**

SPILL PROCEDURE: Wear eye protection and rubber gloves. Neutralize spill with diluted acetic acid. Soak up spill with rags, paper towels, sponge; rinse away or discard. Clean spill-area thoroughly with water.  
WASTE DISPOSAL: This solution may be sent to an EPA-approved waste disposal facility. Comply with all federal, state, and local regulations.

#### **Section IX – Precautions for Handling and Storage**

SAFETY EQUIPMENT: Chemical safety goggles, laboratory coat, rubber gloves, safety-shower with eye-wash.  
HANDLING PROCEDURES: Avoid eye and skin contact. Do not ingest. Wear safety glasses and gloves.  
STORAGE PROCEDURES: Store at room temperature.

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