

**MATERIAL SAFETY DATA SHEET****DILUENT 2**

*LAD*  
Hayem Diluting Fluid  
An Isotonic Diluting  
Fluid for Erythrocyte  
Count.

**CRITERION SCIENCES**

107 RIVERDALE ROAD

RIVERDALE, NEW JERSEY 07457

(973) 831-9800 8:00 am to 5:00 pm EST

**CHEMTREC (800) 424-9300****24 hours Everyday**

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**1. SUBSTANCE IDENTIFICATION**SUBSTANCE: **DILUENT 2**

CATALOG NUMBER: 5522

TRADE NAMES/SYNONYMS: Sodium Azide Free Diluent

CHEMICAL FAMILY: Inorganic Salt Solution

MIXTURE, AQUEOUS

**2. COMPOSITION AND INGREDIENTS INFORMATION**Sodium Chloride  
TSRN# 119-11-1

CAS# 7647-14-5

&lt;1%

**3. HAZARDS IDENTIFICATION**

NFPA RATINGS (SCALE 0-4): Health = 0 Fire = 0 Reactivity = 0

Diluent 2 is a saline solution with 2-Phenoxyethanol added as a preservative. Diluent 2 may cause slight irritation when inhaled with symptoms including, sore throat, coughing and headache. Slight irritation may develop with prolonged skin contact.

**Potential Health Effects:**

**Inhalation:** May cause irritation of the respiratory tract with sore throat, coughing and headache.

**Eye Contact:** May cause mild irritation.

**Skin Contact:** May cause mild irritation.

**Ingestion:** May cause sore throat, abdominal pain and nausea.

#### 4. FIRST-AID PROCEDURES

**Inhalation:** Remove to fresh air. Get medical attention for any breathing difficulties.

**Eye Contact:** Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids for at least 15-20 minutes. If irritation persists, seek medical attention.

**Skin Contact:** Wash affected area with soap or mild detergent and large amounts of water.

**Ingestion:** If large amounts are swallowed seek medical advice.

#### 5. FIREFIGHTING PROCEDURES

**FIRE AND EXPLOSION HAZARD:** Non-Flammable

**FLASH POINT:** Non-flammable

**UPPER EXPLOSIVE LIMIT:** N/A

**LOWER EXPLOSIVE LIMIT:** N/A

**FIRE FIGHTING MEDIA:** Media that is appropriate for surrounding material.

**FIRE RESPONSE PROCEDURES:** Use procedures appropriate for surrounding materials.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

#### 6. ACCIDENTAL RELEASE PROCEDURES

**SMALL or LARGE SPILL:** Absorb, mop, or wipe up spill.

#### 7. HANDLING AND STORAGE

**General handling:** Avoid contact with eyes, skin and clothing. Store in a cool, dry area at room temperature, 15-30°C.

#### 8. EXPOSURE CONTROL (PERSONAL PROTECTIVE EQUIPMENT)

**VENTILATION:** Provide local exhaust or general dilution ventilation system.

**RESPIRATOR:** None required.

**CLOTHING:** None required.

**GLOVES:** Gloves should be worn as good laboratory practice.

**EYE PROTECTION:** Safety glasses should be worn as good laboratory practice.

**EXPOSURE GUIDELINES:** No occupational exposure limits established by OSHA, ACGIH or NIOSH.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**DESCRIPTION:** Colorless liquid with negligible odor.

**BOILING POINT:** 100°C

**FLASH POINT:** Non-flammable

**VAPOR PRESSURE:** Essentially like water

**VAPOR DENSITY:** Essentially like water

**pH:** ~7.5

**MELTING POINT:** N/A

**SPECIFIC GRAVITY:** ( $H_2O=1$ ) (@25°C) No information available

**SOLUBILITY IN WATER:** Complete

**EVAPORATION RATE:** Essentially the same as water

## 10. STABILITY AND REACTIVITY INFORMATION

**REACTIVITY:** Diluent 2 is stable in closed containers under normal temperatures and pressures.

**INCOMPATIBILITIES:** None

**DECOMPOSITION:** Thermal decomposition will not occur.

**POLYMERIZATION:** Hazardous polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

**100% Sodium Chloride:**

skn-rbt 50mg/24H MLD

skn-rbt 500mg MLD

eye-rbt 100mg/24H MOD

ori-rat LD50: 3000mg/kg

ori/hmnTDLo: 12357mg/kg/23D-C:CVS

**100% 2-Phenoxyethanol:skn-rbt**

500mg/24H MLD

eye-rbt 6mg MOD

skn-rbt LD50: 5000mg/kg

ori-rat LD50: 1260mg/kg

## 12. ECOLOGICAL INFORMATION

At sodium chloride and 2-Phenoxyethanol concentrations this low there is little to no significant detrimental effect to the environment.

## 13. DISPOSAL GUIDELINES

Diluent 2 may be disposed of as a non-hazardous material.

## 14. TRANSPORT INFORMATION

DOT Shipping Name: Saline solutions, Non-hazardous material.

## 15. REGULATORY INFORMATION

### SARA TITLE III (Superfund Amendment and Reauthorization Act)

SECTION 302 AND 304: Extremely Hazardous Substance List (40 CFR 355)- Not Listed

SECTION 311: Hazard Categorization (40 CFR 370)- None

SECTION 313: Toxic Chemicals Listing (40 CFR 372.65)- Not Listed as a toxic chemical

### CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)

SECTION 102(A) Hazardous Substances (40 CFR 302.4)- Not Listed

Reportable Quantity - N/A

SECTION 101(14) Reportable Quantity: N/A

### RCRA (Resource Conservation and Recovery Act.)

40 CFR 261.21 Hazardous Waste Number: Not Listed

### NJ-RTK (New Jersey- State Right To Know)

Environmental Hazardous Substance List: Not Listed

## 16. OTHER INFORMATION:

Diluent 2, as manufactured by Criterion Sciences, is intended for legal use in laboratories and manufacturing environments.