



## Material Safety Data Sheet

### AEC Substrate Buffer, 10X: sc-36873

#### CHEMICAL IDENTIFICATION

**Synonyms:** AEC Substrate Buffer, 10X

**Description:** For use with AEC HRP substrate. This substrate will produce a red colored deposit upon reaction with peroxidase.

#### Recommended guidelines for use:

1. Prepare 1X AEC Substrate Buffer: 9 parts distilled water to 1 part 10X AEC Substrate Buffer(sc-36873).
2. Prepare 1X AEC Substrate Solution: 50 parts 1X AEC Substrate Buffer(prepared in Step 1) to 1 part 50X AEC Concentrate(sc-24979). Mix well.
3. Completely cover prepared tissue sections with 1X AEC Substrate Solution(prepared in Step 2) and incubate at room temperature. A 3-5 minute incubation will produce the desired red color upon reaction with peroxidase. However, due to variables associated with assay conditions, incubation times up to 30 minutes may be required to obtain desired results.
4. After incubation, rinse with 2-3 changes of distilled water.
5. Counterstain (optional).
6. Mount tissue sections. Note: This reagent is soluble in alcohol and xylenes. DO NOT dehydrate tissues after staining. Mount with aqueous mounting solution only such as Crystal Mounting Medium(sc-24943).

#### COMPOSITION/INFORMATION ON INGREDIENTS

**Storage:** Store at 4° C, protect from light

#### HAZARDS IDENTIFICATION

**Inhalation:** May cause irritation. Additional effects may include coughing, chest pain and difficulty breathing.

**Skin Contact:** May cause irritation.

**Eye Contact:** May cause irritation. Additional effects may include eye damage.

**Ingestion:** May cause gastrointestinal irritation. Additional effects may include burns, digestive disorders and weakness.

#### FIRE EXTINGUISHING MEASURES

**Extinguishing media:** Dry chemical, carbon dioxide, or regular foam. For larger fires, use water spray, fog or regular foam.

**Hazardous thermal (de)composition products:** These products are nitrogen oxides (NO, NO<sub>2</sub>...).

**Special fire-fighting procedures:** Wear a certified respirator or equivalent

#### FIRST-AID MEASURES

**After skin contact:** flush with copious amounts of water; remove contaminated clothing and shoes; call a physician.

**After eye contact:** flush with copious amounts of water; assure adequate flushing by separating the eyelids with fingers; call a physician.

**After swallowing:** if swallowed, wash out mouth with copious amounts of water; call a physician.

#### PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and Odor:** Colorless, odorless liquid.

#### ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Small spill and leak:** Absorb with an inert material and put the spilled material in an appropriate waste disposal.

**Large spill and leak:** Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

#### HANDLING AND STORAGE

Observe all federal, state and local regulations when storing this substance. Store away from incompatible substances. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 4°C (39.2°F).

#### EXPOSURE CONTROLS/PERSONAL PROTECTION

**Personal protective equipment as follows:**

**Breathing equipment:** NIOSH/MSHA-approved respirator

**Protection of hands:** chemical-resistant rubber gloves

**Eye protection:** chemical safety goggles

#### PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid

#### STABILITY AND REACTIVITY

**Stability:** Stable.

#### TOXICOLOGICAL INFORMATION

RTECS # : N/A

#### ECOLOGICAL INFORMATION

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

#### DISPOSAL CONSIDERATIONS

Observe all federal, state and local environmental regulations.

#### TRANSPORT INFORMATION

International transport regulations

**Land - Road/Railway**

ADR/RID Class: Not controlled under ADR (Europe).

**Sea**

IMDG Class: Not controlled under IMDG.

**Air**

IATA-DGR Class: Not controlled under IATA.

Special Provisions for Transport: Not applicable.



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### REGULATORY INFORMATION

EU Regulations: This product is not classified according to the EU regulations.

#### U.S. Federal Regulations:

Clean Water Act (CWA) 307: No products were found.

TSCA: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

SARA 313 toxic chemical notification and release reporting: No products were found.

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

### OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Santa Cruz Biotechnology shall not be held liable for any damage resulting from handling or from contact with the product.