SDS Number: ZC20210101C

Buffer

Effective January 1, 2021



1. Product and Company Identification

Product(s) ZD2 Citrate Plus (10X) HIER Solution

ZD3 PBS Plus Tween 20 (20X) pH 7.6

ZD4 TBS IHC Wash Buffer, 25X

ZD5 Tris Plus Tween 20 (20X) pH 7.4

ZD6 Tris-EDTA HIER Solution (10X) pH 9.0

Related Product Kit Not applicable

Intended Use & Immunohistochemistry reagent intended for use by professional laboratory personnel

Restrictions that have been properly trained in its use.

Company Information Zeta Corporation

65 N 1st Ave, Suite 202C Arcadia, CA 91006 tel: (626) 355.2053 fax: (626) 836.9149 Email: info@zeta-corp.com

www.zeta-corp.com

24-Hour Emergency CHEMTREC

Contact +1 800-424-9300 (USA)

2. Hazards Identification

Emergency Overview Clear, colorless liquid. Avoid prolonged exposure. Not flammable.

OSHA Hazards Irritant. Harmful by ingestion. Skin sensitizer.

GHS Classification Warning Signal words, Symbol, Hazard & Precautionary **Statements**



H302 Harmful if swallowed.

H316 Causes mild skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Potential Health Effects

Skin Contact May be harmful if exposed to skin. May cause skin irritation, itching, redness or inflammation.

Eye Contact May be harmful if exposed to eyes. May cause eye irritation, watering eyes, stinging or burning sensation.

Inhalation May be harmful if inhaled. May cause respiratory tract irritation, headache, dizziness, nausea or coughing.

Ingestion May be harmful if swallowed. May cause irritation of gastrointestinal tract, nausea, or vomiting.

See Section 11: Toxicological Information for additional information.

Environmental Effects None identified.

See Section 12: Ecological Information for additional information.

3. Composition / Information on Ingredients

3.2 Chemical Description: Mixture

Note: The buffer may contain non-hazardous proprietary ingredients and contain additional active ingredients at concentrations <0.1%v/v. Mixtures do not contain sodium azide but may contain other preservatives. These products do not contain other hazardous chemicals according to the Federal OSHA Hazardous Communication Standard (29 CFR 1910.1200) or the Globally Harmonized System of Classification and Labeling of Chemicals.

4. First Aid Measures

General Advice Avoid further exposure to product. Consult a physician.

In case of skin contact Wash exposed area with soap and plenty of water. Remove any contaminated clothing. Seek medical attention.

In case of eye contact Wash eyes with plenty of water for at least 15 minutes. Have victim remove contact lenses. Be sure to wash under eyelids. Seek medical attention.

If inhaled Remove victim to well-ventilated area. If victim is not breathing, give artificial respiration. Seek medical attention.

If swallowed If victim is conscious, rinse mouth with water. Do not give anything to an unconscious victim. Seek medical attention.

5. Fire Fighting Measures

Suitable Extinguishing Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Media Use extinguisher media appropriate for surrounding fire.

Special Protective
Equipment for
Eigenfighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

Firefighters Prevent contact with eyes and

Special Exposure Hazards None identified.

6. Accidental Release Measures

Personal Precautions Use of personal protective equipment is recommended as described in Section



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8. Isolate hazard area and deny entry to unprotected personnel.

Environmental Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers,

Precautions ditches and waterways.

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Methods for containment Small spills may be contained and cleaned-up with paper towels or absorbent

and clean up pads. Absorb large spills with sand or vermiculite and place in a closed container for waste disposal. Avoid physical contact during removal.

7. Handling and Storage

Precautions for Safe Avoid contact with eyes, skin and clothing. Do not ingest. Wash hands thoroughly Handling after use.

Conditions for Safe Keep container tightly closed. Keep container in a cool, well-ventilated area. Storage

8. Exposure Controls / Personal Protection

Permissible Exposure Contains no substances with occupational exposure limit values. Limits

Engineering Controls No special controls needed.

Personal Protective Equipment Contains no substances with occupational exposure limit values.

Eye Protection No special controls needed.

Skin Protection Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material.

Respiratory Protection Use chemically resistant gloves and a lab coat with sleeves.

General Hygiene Avoid contact with eyes, skin and clothing. Wash hands thoroughly after handling and Measures before eating or drinking.

9. Physical and Chemical Properties

Appearance Clear, colorless solution.

Odor None

pH (as supplied) 7.4 as supplied

Melting point Not determined.

Boiling point Not determined.

Flash point Not determined.

Flammability Not determined.

Lower explosion limit Not determined.

Upper explosion limit Not determined.

Vapor pressure Not determined.

Vapor density Not determined.

Specific gravity Not determined.

Solubility (in water) Soluble.

Partition coefficient Not determined.

(n-octanol/water)

Auto-ignition temperature Not determined.

Decomposition Not determined.

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10. Stability and Reactivity

Chemical Stability Stable under recommended storage conditions (see Section 7).

Conditions to avoid None identified.

Materials to avoid Strong oxidizing agents, amines, mercaptans, reducing agents.

Hazardous decomposition Hazardous decomposition products formed under fire conditions: carbon

products monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas.

Possibility of hazardous

reactions No data available.

11. Toxicological Information

Acute dose effects Tris Base: LD50 (rat), 5900 mg/kg

Proclin 950: LD50 Oral (rat, female), 1091 mg/kg Proclin 950: LD50 Oral (rat, male), 2834 mg/kg Proclin 950: LD50 Dermal (rabbit), >5000 mg/kg Tween 20: LD50 Oral (rat) – 40,554 mg/kg

Repeat dose effects No data available.

Skin irritation Proclin 950: Rabbit, Causes severe burns.

Tween 20: Human, Mild skin irritation, 3 days.

Skin and respiratory

sensitization

Proclin 950: Guinea pig, May cause allergic skin reaction.

Eye irritation Proclin 950: Rabbit, Corrosive.

Carcinogenicity No component of this product present at levels greater than or equal to

0.1% is identified as a probable, possible, potential, known,

anticipated, or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.

Mutagenicity No data available.

Reproductive effects No data available.

Developmental effects No data available.

Target organ effects No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated at product concentrations.

12. Ecological Information

Ecotoxicity No data available

Persistence and N

No data available

degradability

Bioaccumulation/ No data available

Mobility in environmental

media No data available

Other hazardous effects No data available

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13. Disposal Considerations

Product Disposal should be in accordance with applicable national, state, and local laws and regulations. Local regulations may be more stringent than national or state requirements. Verify local and state regulations before discharging into public sewers or landfills. Do not dump into any body of water. Contact a licensed professional waste disposal service for appropriate methods of disposal.

Contaminated packaging Dispose of as unused product.

14. Transportation Information

Proper shipping name Not applicable

Technical name Not applicable

Hazard class Not applicable

Identification number Not applicable

Packing group Not applicable

DOT (US) Not regulated

IMDG Not regulated

IATA Not regulated

TDG Not regulated

15. Regulatory Information

Inventory Status

United States (TSCA) All ingredients are on the inventory or exempt from listing.

Canada (DSL / NDSL) All ingredients are on the inventory or exempt from listing.

SARA 302 Components No chemicals in this product are subject to reporting requirements.

SARA 313 Components No chemicals in this product are subject to reporting requirements.

SARA 311/312 Hazards Proclin 950: Acute health hazard

California Prop. 65 This product does not contain any chemicals known to the State of California to **components** cause cancer, birth defects, or any other reproductive harm.

16. Other Information

Sources and Suitability The above information was obtained from sources available at the time of revision and believed to be accurate and reliable. The information included is not intended to be all inclusive and should only be used as a guide. Biocare shall not be held liable for any damage resulting from use, handling, or contact with the above product.

> Note: Before using this product, please visit the Zeta Corporation website at http://zeta-corp.com for the current version of this SDS.