



MATERIAL SAFETY DATA SHEET

Section 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier:
Product name: **Alkaline Phosphatase Conjugate Stabilizer, 1X**
Product no./Catalog #(s): 3323, 6270, 6271, 6272, 6273, 6274
Internal ID: CS7; Alkaline Phosphatase Stabilizer, 1X
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:
Identified uses: For research use only.
- 1.3 Details of the supplier of the safety data sheet:
Supplier: ImmunoChemistry Technologies, LLC
9401 James Avenue South, Suite #155
Bloomington, MN 55431-2500 USA
www.immunochemistry.com
1-800-829-3194 and 952-888-8788
Fax 952-888-8988
help@immunochemistry.com
Contact person: Sally Hed
- 1.4 Emergency telephone number:
1-800-829-3194 / 952-888-8788 (Hours: 9 am-5 pm central standard time, Monday-Friday)

Section 2: Hazards identification

- 2.1 Emergency overview: No health hazard is anticipated during normal handling and use. Based on percentages of hazardous ingredients in this product, this product is not classified as "dangerous" under EU Directives (67/548/EEC and 1999/45/EC) or hazardous under US OSHA Hazard Communication regulations (29 CFR 1910.1200).
- 2.2 Classification of the substance or mixture:
US OSHA Hazard Communication (29 CFR 1910.1200): Not classified as hazardous.
EU Directives (67/548/EEC; 1999/45/EC): Not classified as hazardous.
- 2.3 Other hazards: No information available.

Section 3: Composition/information on ingredients

3.2 Mixtures:

Methylisothiazolone	<0.1%
CAS-No.:	2682-20-4
EC No.:	220-239-6
<u>EU Classification:</u> N, C, R20/21/22, R34, R43, R50/53, S24, S26, S36/37/39, S45, S60, S61	
Bromonitrodioxane	<0.1%
CAS-No.	30007-47-7
EC No.:	250-001-7
<u>EU Classification:</u> Xn, R22, S36/37/39	

The full text for all R-phrases and hazard statements is displayed in Section 16.

Section 4: First aid measures

- 4.1 Description of first aid measures:
- Inhalation: In case of inhalation of spray mist: move person into fresh air and keep at rest. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
- Ingestion: If swallowed, consult with medical staff or poison control center to determine if any immediate response or follow-up actions are recommended.
- Skin contact: Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
- Eye contact: Promptly wash eyes with plenty of water or normal saline for at least 15 minutes while lifting the eyelids. Make sure to remove any contact lenses from the eyes before rinsing. Seek medical attention if any discomfort or irritation develops.
- 4.2 Most important symptoms and effects, both acute and delayed:
- Inhalation: No adverse acute effects are expected via this route of entry.

- Ingestion: No data on ingestion of the material is available.
Skin contact: No adverse acute effects are expected via this route of entry.
Eye contact: No adverse acute effects are expected via this route of entry.
- 4.3 Indication of any immediate medical attention and special treatment needed: no specific first aid measures noted.

Section 5: Firefighting measures

- 5.1 Extinguishing media: This product is not flammable. Use fire-extinguishing media appropriate for the surrounding materials.
- 5.2 Special hazards arising from the substance or mixture:
Hazardous combustion products: Toxic fumes of carbon monoxide, carbon dioxide, and nitrogen oxides.
Unusual fire & explosion hazards: No unusual fire or explosion hazards noted.
- 5.3 Advice for firefighters:
Special firefighting procedures: No specific firefighting procedure given.
Protective measures in fire: Use protective equipment appropriate for the surrounding materials.

Section 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures: Use protective gloves, goggles, and suitable protective clothing.
- 6.2 Environmental precautions: No information available.
- 6.3 Methods and material for containment and clean up: Absorb spillage with suitable absorbent material and place in a disposal container. Flush with plenty of soap and water to clean spillage area.
- 6.4 Reference to other sections: Wear protective clothing as described in Section 8 of this safety data sheet.

Section 7: Handling and storage

- 7.1 Precautions for safe handling: Refer to Section 8 for recommended precautionary measures during handling. Good personal hygiene is necessary.
- 7.2 Conditions for safe storage, including any incompatibilities: Keep in original container with lid tightly closed. Store at specified temperature. Refer to product label.
- 7.3 Specific end use(s): The identified uses for this product are detailed in Section 1.2.

Section 8: Exposure controls/personal protection

- 8.1 Control parameters: No exposure limits have been established by OSHA PEL or ACGIH TLV.
- 8.2 Exposure controls:
Protective equipment:



- Process conditions: Provide eyewash station and safety shower near location of use.
- Engineering measures: Not respirable as a liquid, but in general, provide adequate ventilation.
- Hand protection: Use suitable protective gloves, e.g. disposable rubber gloves, if risk of skin contact.
- Eye protection: If risk of splashing, wear safety goggles or face shield.
- Skin protection: Wear apron or protective clothing in case of contact.
- Hygiene measures: Practice good chemical hygiene when handling. Avoid contact with eyes, skin and clothing. Wash promptly if skin becomes wet or contaminated, and promptly remove any clothing that becomes contaminated. When using, do not eat, drink, or smoke. Do not ingest material.

Section 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties:
- Appearance: Clear, light yellow liquid.
- Physical state: Liquid.
- Odor: No characteristic odor.
- Solubility: Soluble in water.
- Initial boiling point and boiling range: 100°C @ 760 mm Hg
- Melting point (°C): Not determined.
- Relative density: Not determined.
- Vapor density (Air =1): Not determined.
- Vapor pressure: Not determined.
- Evaporation rate: Not determined.
- pH-value, conc. solution: 5.5-6.5.
- Viscosity: Not determined.
- Solubility value (G/100G H₂O@20°C): Not determined.
- Decomposition temperature (°C): Not determined.
- Flash point (°C): Not applicable.
- Auto ignition temperature (°C): Not determined.
- Flammability (solid, gas): Not flammable.
- Flammability limit – lower (%): Not applicable.
- Flammability limit – upper (%): Not applicable.

Partition coefficient (N-octanol/water)	Not determined.
Explosive properties:	Not explosive.
Oxidizing properties:	Not an oxidizer
9.2 Other information:	None.

Section 10: Stability and reactivity

10.1 Reactivity:	No data available.
10.2 Chemical stability:	Stable under normal conditions of use and storage.
10.3 Possibility of hazardous reactions:	Hazardous polymerization will not occur.
10.4 Conditions to avoid:	None known.
10.5 Materials to avoid:	None known.
10.6 Hazardous decomposition products:	Toxic fumes of carbon monoxide, carbon dioxide, and nitrogen oxides.

Section 11: Toxicological information

Although complete toxicity information on the product is not available, none of its components are known to be toxic or hazardous at use concentrations. The product contains the mercury-free preservatives methylisothiazolone (<0.1%) and bromonitrodioxane (<0.1%), which can produce adverse health effects in their concentrated forms.

11.1 Information on toxicological effects:	
Acute toxicity (oral LD50):	Bromonitrodioxane: 455 mg/kg [rat], 590 mg/kg [mouse]
Skin corrosion/irritation – human skin model test:	Not determined.
Serious eye damage/irritation:	Not determined.
Respiratory sensitization:	Not determined.
Skin sensitization:	Not determined.
Germ cell mutagenicity (in vitro):	Not determined.
Carcinogenicity:	No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.
Reproductive toxicity:	Not determined.
STOT-single exposure:	Not determined.
STOT-repeated exposure:	Not determined.
Aspiration hazard:	Not determined.

Section 12: Ecological information

Ecotoxicity: there are no data on the ecotoxicity of this product.

12.1 Toxicity: Acute toxicity: Fish:	Not determined.
12.2 Persistence and degradability:	There are no data on the degradability of this product.
12.3 Bioaccumulative potential:	No data available on bioaccumulation.
12.4 Mobility in soil:	The product is soluble in water.
12.5 Results of PBT and vPvB assessment:	No information available.
12.6 Other adverse effects:	Not determined.

Section 13: Disposal considerations

General information: when handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1 Waste treatment methods: dispose of waste and residues in accordance with all federal, state and local requirements.

Section 14: Transport information

General: the product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1 UN number:	Non-regulated, non-hazardous for transport.
14.2 UN proper shipping name:	Non-regulated, non-hazardous for transport.
14.3 Transport hazard class(es):	Non-regulated, non-hazardous for transport.
14.4 Packing group:	Non-regulated, non-hazardous for transport.
14.5 Environmental hazards:	Not available.
14.6 Reportable quantity (RQ):	None known.
14.7 Emergency telephone number (during transport):	CHEMTREC: 1-800-424-9300 (US and Canada); 1-703-527-3887 (International shipments)
14.8 Special precautions for user:	Not applicable.

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:	
Approved code of practice:	Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.
US Federal Regulations:	TSCA (Toxic Substance Control Act): The individual components of this mixture are listed on the TSCA inventory. CERCLA (Comprehensive Response Compensation, and Liability Act): Not Applicable. SARA Title III (Superfund Amendments and Reauthorization Act): Not Listed.
International Regulations:	There are no hazardous ingredients in an amount that requires identification and labeling according to European Community Directives. European Union's REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals): This product meets the definition of a "preparation." The aggregate volume of

each non-exempt substance in this product does not exceed the 1 metric ton per year threshold; therefore, registration is not required.
This safety data sheet has been prepared to comply with the requirements of Annex II, European Community Regulation No. 1907/2006 (REACH) and ANSI Z400.1-2004 guidelines.

15.2 Chemical safety assessment: No chemical safety assessment has been carried out.

Section 16: Other information

General information: Only trained personnel should use this material.

SDS No: F17-3323-2-B

Date: July 15, 2014

Hazard codes:

N Dangerous for the environment.

C Corrosive.

Xn Harmful.

Risk phrases in full:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R22 Harmful if swallowed.

R34 Causes burns.

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects.

Safety statements in full:

S24 Avoid contact with skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves, and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately.

S60 This material and/or its container must be disposed of as hazardous waste.

S61 Avoid release to the environment.

Legend:

ACGIH American Conference of Industrial Hygienists

CAS # Chemical Abstracts Service Number

IARC International Agency for Research on Cancer

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.