



## MATERIAL SAFETY DATA SHEET

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

- 1.1 Product identifier:
- Product name: **ELISA Wash Buffer, 10X**
- Product no./Catalog #(s): 527, 650, 651, 652, 676, 6251
- Internal ID: 10X WB1, WB1, WB, EWB, ELISA Wash Buffer
- 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](http://www.immunochemistry.com)  
 1-800-829-3194 and 952-888-8788  
 Fax 952-888-8988  
[help@immunochemistry.com](mailto: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 Classification of the substance or mixture:
- Classification (EC 1272/2008)
- Physical and chemical hazards: Not classified.
- Human health: Skin Sens. 1 - H317.
- Environment: Not classified.
- Classification (1999/45/EEC)
- Human health: R43.
- This product contains a sensitizing substance which may provoke an allergic reaction among sensitive individuals.
- 2.2 Label elements:
- Contains: 2-Chloroacetamide

Label in accordance with (EC) No. 1272/2008



Signal word: Warning.

Hazard statements: H317 May cause an allergic skin reaction.

Precautionary statements:

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+352 If on skin: wash with plenty of soap and water.
- P333+313 If skin irritation or rash occurs: get medical advice/attention.
- P321a Specific treatment (see first aid advice on this label).
- P501 Dispose of contents/containers in accordance with local regulations.

Supplementary precautionary statements:

- P272 Contaminated work clothing should not be allowed out of the workplace.
- P363 Wash contaminated clothing before reuse.

- 2.3 Other hazards: No information available.

**Section 3: Composition/information on ingredients**

3.2 Mixtures:

2-Chloroacetamide	1%
CAS-No.:	79-07-2
EC No.:	201-174-2
<b>Classification (EC 1272/2008):</b>	
Acute Tox. 3 – H301	
Skin Sens. 1 – H317	
Repr. 2 – H361f	
<b>Classification (67/548/EEC):</b>	
	Repr. Cat. 3; R62
	T; R25
	R43

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: NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.
- Skin contact: Promptly wash contaminated skin with water. Promptly remove clothing if soaked through and wash the skin with water. Get medical attention promptly if symptoms occur after washing.
- Eye contact: Promptly wash eyes with plenty of water while lifting the eyelids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes and get medical attention.

4.2 Most important symptoms and effects, both acute and delayed:

- Inhalation: Irritation of nose, throat and airway.
- Ingestion: May cause discomfort if swallowed.
- Skin contact: Skin irritation. Risk of sensitization or allergic reactions among sensitive individuals.
- Eye contact: May cause temporary eye irritation.

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: Water spray, foam, dry powder, or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture:
  - Hazardous combustion products: None under normal conditions.
  - 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: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**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: Do not allow to enter drains, sewers, or watercourses.
- 6.3 Methods and material for containment and clean up:
  - When dealing with a spillage, please consult the section relating to suitable protective measures. Absorb spillage with suitable absorbent material. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.
- 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:
  - Avoid inhalation of vapors/spray and contact with skin and eyes.
  - Good personal hygiene is necessary.
  - Wash hands and contaminated areas with water and soap before leaving the work site.
- 7.2 Conditions for safe storage, including any incompatibilities:
  - Keep in original container. Store at specified temperature. Refer to product label.
  - Storage class: Refer to product data sheet.
- 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:
- 8.2 Exposure controls:
- Protective equipment:



- Process conditions: Provide eyewash station.
- Engineering measures: Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of

Respiratory equipment:	inhalation of spray. No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.
Hand protection:	Use suitable protective gloves if risk of skin contact.
Eye protection:	If risk of splashing, wear safety goggles or face shield.
Other protection:	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures:	DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking, and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink, or smoke.
Skin protection:	Wear apron or protective clothing in case of contact.

**Section 9: Physical and chemical properties**

9.1	Information on basic physical and chemical properties:	
	Appearance:	Liquid
	Color:	Colorless
	Odor:	No characteristic odor.
	Solubility:	Soluble in water.
	Initial boiling point and boiling range:	<100 @ 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.
	Viscosity:	Not determined.
	Decomposition temperature (°C):	Not determined.
	Flash point (°C):	Not applicable.
	Auto ignition temperature (°C):	Not determined.
	Flammability limit – lower (%):	Not applicable.
	Partition coefficient (N-octanol/water)	Not determined.
	Explosive properties:	No unusual fire or explosion hazards noted.
	Oxidizing properties:	Not determined.
9.2	Other information:	None.

**Section 10: Stability and reactivity**

10.1	Reactivity:	No specific reactivity hazards associated with this product.
10.2	Chemical stability:	Stable under normal temperature conditions.
10.3	Possibility of hazardous reactions:	Hazardous polymerization: will not polymerize.
10.4	Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.
10.5	Incompatible materials:	Materials to avoid: Strong oxidizing substances. Strong reducing agents. Strong acids.
10.6	Hazardous decomposition products:	None under normal conditions.

**Section 11: Toxicological information**

11.1	Information on toxicological effects:	
	Acute toxicity (oral LD50):	138 mg/kg rat
	Acute toxicity (inhalation LC50):	Not determined.
	Skin corrosion/irritation – human skin model test:	Not determined.
	Serious eye damage/irritation:	Not determined.
	Respiratory sensitization:	Not determined.
	Skin sensitization:	No information available.
	Germ cell mutagenicity (in vitro):	Not determined.
	Germ cell mutagenicity (in vivo):	Not determined.
	Carcinogenicity:	Not determined.
	Suspected reproductive toxicant based on limited evidence.	
	STOT-single exposure:	Not determined.
	STOT-repeated exposure:	Not determined.
	Aspiration hazard:	Not determined.
	General information:	Knowledge about health hazard is incomplete.
	Inhalation:	Moderately irritating.
	Ingestion:	May cause discomfort if swallowed.
	Skin contact:	Liquid may irritate skin. Risk of sensitization or allergic reactions among sensitive individuals.
	Eye contact:	Irritation of eyes and mucous membranes.
	Health warnings:	The product contains a small amount of sensitizing substance which may prove an allergic reaction among sensitive individuals in contact with skin. Possible reproductive impact.
	Route of entry:	Ingestion. Skin and/or eye contact.
	Name:	2-Chloroacetamide

**Section 12: Ecological information**

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

12.1	Toxicity:	LC 50, 96 hrs, fish mg/l: Carassius auratus (goldfish) – 19.8 mg/l EC 50, 48 hrs, Daphnia, mg/l: Daphnia magna (water flea) – 14.0 mg/l
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:	None known.
	Name:	2-Chloroacetamide

**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 local authority requirements.
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**Section 14: Transport information**

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

	Road transport notes:	Not classified.
	Rail transport notes:	Not classified.
	Sea transport notes:	Not classified.
	Air transport notes:	Not classified.
14.1	UN number:	Not applicable.
14.2	UN proper shipping name:	Not applicable.
14.3	Transport hazard class(es):	Not applicable.
14.4	Packing group:	Not applicable.
14.5	Environmental hazards: Environmentally hazardous substance/marine pollutant:	No.
14.6	Special precautions for user:	Not known.
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	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.
	Guidance notes:	Workplace exposure limits EH40.
	EU Legislation:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
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:	F17-527-2-C
	Date:	May 28, 2014
	Risk phrases in full:	
	R43	May cause sensitization by skin contact.
	R62	Possible risk of impaired fertility.
	R25	Toxic if swallowed.
	Hazard statements in full:	
	H317	May cause an allergic skin reaction.
	H361f	Suspected of damaging fertility.
	H301	Toxic if swallowed.

**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.