SAFETY DATA SHEET



LABELING BUFFER

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

1.1 Product identifier	
Product name	: LABELING BUFFER
Product type	: Liquid.
Other means of identification	: Not available.
Product part number	: 4448445
Kit name	: áTRAQ™ Reagent Kit 200 Assay aTRAQ Reagent Kit 50 Assay
Kit part number	: 4442671, 4442668
1.2 Relevant identified us	es of the substance or mixture and uses advised against
Product use	: Research and Development
Area of application	: Professional applications.

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Uses advised against	
None identified.	

1.3 Details of the supplier of the safety data sheet

AB Sciex UK Limited 21F18, 21 Mereside, Alderley Park Macclesfield, Cheshire SK10 4TG United Kingdom Telephone no.: 00800 2255 2279 e-mail address of person : msds.inquiry@sciex.com responsible for this SDS

1.4 Emergency telephone number

National advisory body/	Poison Centre
Telephone number	: CHEMTREC: +44 20 3807 3798
<u>Supplier</u>	
Telephone number	: 1-877-740-2129 (8:30A PT - 5:00P PT)

SECTION 2: Hazards identification

2.1 Classification of the sub	stance or mixtur	e			
Product definition	: Mixture				
Classification according to Not classified.	<u> Regulation (EC</u>	<u>) No. 1272/2008 [CLP/G</u>	iHS]		
The product is not classified	as hazardous acc	cording to Regulation (E	C) 1272/2008 as ame	nded.	
Ingredients of unknown toxicity	: 2.8 percent toxicity	of the mixture consists o	f component(s) of un	known acute inhalation	
Date of issue/Date of revision	: 03/03/2022	Date of previous issue	: 31/05/2011	Version : 1.02	1/12

LABELING BUFFER

SECTION 2: Hazards identification

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word	: No	signal word.
Hazard statements	: No	known significant effects or critical hazards.
Precautionary statements		
Prevention	: Not	t applicable.
Response	: Not	t applicable.
Storage	: Not	t applicable.
Disposal	: Not	t applicable.
Supplemental label elements	: <mark>S</mark> af	ety data sheet available on request.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not	t applicable.
Special packaging requirem	<u>nts</u>	
Containers to be fitted with child-resistant fastenings	: Not	t applicable.
Tactile warning of danger	: Not	t applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: This vPv	s mixture does not contain any substances that are assessed to be a PBT or a /B.

Other hazards which do : Mone known. not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures :	Mixture			
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
boric acid	EC: 233-139-2 CAS: 10043-35-3 Index: 005-007-00-2	≤3	Repr. 1B, H360FD	[1]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. Type

LABELING BUFFER

SECTION 3: Composition/information on ingredients

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/s	<u>ymptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: 🗗 not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: No specific data.

5.3 Advice for firefighters

Date of issue/Date of revision : 03/03/2022 Date of previous issue : 31/05/2011 Vers
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SECTION 5: Firefighting measures

Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

LABELING BUFFER

SECTION 7: Handling and storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

- : Not available.
- Recommendations Industrial sector specific solutions
- : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
oric acid	DNEL	Short term Oral	0.98 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.98 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	4.15 mg/m ³		Systemic
	DNEL	Long term Inhalation	8.3 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	196 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	392 mg/kg bw/day	Workers	Systemic

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: Sood general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Date of issue/Date of revision

SECTION 8: Exposure controls/personal protection

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Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physica	l and chemical properties			
<u>Appearance</u>				
Physical state	: Liquid.			
Colour	: Not available.			
Odour	: Not available.			
Odour threshold	: Not available.			
рН	Not available.			
Melting point/freezing point	: Not available.			
Initial boiling point and boiling range	: Not available.			
Flash point	: Not available.			
Evaporation rate	: Not available.			
Flammability (solid, gas)	: Not applicable.			
Upper/lower flammability or explosive limits	: Not available.			
Vapour pressure	: Not available.			
Vapour density	: Not available.			
Relative density	: Not available.			
Solubility(ies)	: Not available.			
Date of issue/Date of revision	: 03/03/2022 Date of previous issue	: 31/05/2011	Version : 1.02	6/12

SECTION 9: Physical and chemical properties

Partition coefficient: n-octanol/ water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.

9.2 Other information	
Physical/chemical properties comments	: No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
10.4 Conditions to avoid	:	No specific data.
10.5 Incompatible materials	:	Reactive or incompatible with the following materials: oxidising materials, reducing materials and metals.
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	E	xposure
poric acid	LD50 Dermal	Rabbit - Male, Female	>2000 mg/kg	-	
	LD50 Oral	Rat - Male	>2600 mg/kg	-	
Conclusion/Summary	Not available.	·	·		
Acute toxicity estimates					
N/A					
ritation/Corrosion					
Conclusion/Summary	: Not available.				
ensitisation					
Conclusion/Summary	: Not available.				
lutagenicity					
te of issue/Date of revision	: 03/03/2022 Date of previou	is issue : 31/05/2	011	Version	:1.02 7

SECTION 11: Toxicological information : Not available. **Conclusion/Summary** Carcinogenicity **Conclusion/Summary** : Not available. **Reproductive toxicity Conclusion/Summary** : Not available. **Teratogenicity** : Not available. **Conclusion/Summary** Specific target organ toxicity (single exposure) Not available. Specific target organ toxicity (repeated exposure) Not available. **Aspiration hazard** Not available. Information on likely routes : Routes of entry anticipated: Oral, Dermal, Inhalation. of exposure Potential acute health effects Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. Symptoms related to the physical, chemical and toxicological characteristics Eye contact : No specific data. Inhalation : No specific data. **Skin contact** : No specific data. Ingestion : No specific data. Delayed and immediate effects as well as chronic effects from short and long-term exposure Short term exposure **Potential immediate** : Not available. effects **Potential delayed effects** : Not available. Long term exposure **Potential immediate** : Not available. effects **Potential delayed effects** : Not available. **Potential chronic health effects** General : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. **Mutagenicity** : No known significant effects or critical hazards. **Reproductive toxicity** : No known significant effects or critical hazards. Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
poric acid	Acute LC50 45.5 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 133000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 75 mg/l Marine water	Fish - Pagrus major	96 hours
	Chronic NOEC 6000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 2100 µg/l Fresh water	Fish - Oncorhynchus mykiss	87 days
Conclusion/Summary	: Not available.	•	

12.2 Persistence and degradability

Conclusion/Summary	: Not available.
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12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
boric acid	-1.09	-	low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	 Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

LABELING BUFFER

SECTION 13: Disposal considerations

Special precautions

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-		-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for user

: **Fransport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk: Not available.according to IMOinstruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Ingredient name	Intrinsic property		Reference number	Date of revision
p oric acid	Toxic to reproduction	Recommended	ED/69/2013	7/1/2015

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Ingredient name	EC number	CAS number	Restriction
boric acid	233-139-2	10043-35-3	30

Substances requiring : Not applicable. labelling

Other EU regulations

SECTION 15: Regulatory information
Europe inventory : All components are listed or exempted.
Ozone depleting substances (1005/2009/EU)
Not listed.
Prior Informed Consent (PIC) (649/2012/EU)
Not listed.
Seveso Directive
This product is not controlled under the Seveso Directive.
International regulations
Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.
Montreal Protocol
Not listed.
Stockholm Convention on Persistent Organic Pollutants
Not listed.
Rotterdam Convention on Prior Informed Consent (PIC)
Not listed.
UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed.
15.2 Chemical safety : This product contains substances for which Chemical Safety Assessments are still
assessment required.

15.3 Registration status : Mixture. Information concerning the substance : Contact local supplier or distributor.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	:	ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative
Key literature references and sources for data	:	Regulation (EC) No. 1272/2008 [CLP]; European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), concluded in Geneva on 30 September 1957 plus amendments (Uniform text: Journal of Laws 27/2009 pos. 162 plus amendments); European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN); Occupational exposure limits; International regulations
Due a solution and the should be the	- 1.	a sife stick a second in a table stick (EQ) No. 4070/0000 [OLD/010]

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

LABELING BUFFER

SECTION 16: Other information			
Classification	Justification		
Not classified.			
Full text of abbreviated H statements			

H360FD		May damage fertility. May damage the unborn child.	
Full text of classifications	[CLP/GHS]	·	
Repr. 1B		REPRODUCTIVE TOXICITY - Category 1B	
Training advice	: Ensure operativ	: Ensure operatives are trained to minimise exposures. Training staff on good practice.	
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Version	: 1.02		

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.