Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758 - United Kingdom: Great Britain

SAFETY DATA SHEET



Quenching Buffer Kit, Solution 1

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

- 1.1 Product identifier
- : Quenching Buffer Kit, Solution 1
- Product code Other means of identification

Product name

- : BU08, BU08-L
- : Not available.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- **Product use**

: Professional use. Use in laboratories: Research.

1.3 Details of the supplier of the safety data sheet

Lunaphore Technologies SA Route de Lully 5C, CH-1131 Tolochenaz, Switzerland + 41 800 84 86 89

Distributor:

: support-tech@lunaphore.com

1.4 Emergency telephone number

Supplier

Telephone number : CHEMTREC: +44 20 3807 3798 (Local)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Not classified.

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word	: 📈 signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	: Not applicable.

Quenching Buffer Kit, Solution 1

SECTION 2: Hazards identification

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	Supplemental label elements	:	EUH210 - Safety 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 applicable.
	Special packaging requirement	en	ts
	Containers to be fitted with child-resistant fastenings	:	Not applicable.
	Tactile warning of danger	:	Not applicable.
	2.3 Other hazards		
	Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Other hazards which do not result in classification	:	None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures :	Mixture			
Product/ingredient name	Identifiers	%	Classification	Туре
ydrochloric acid	EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≤2	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	[1] [2]
			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.

Туре

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid m	neasures
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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	 Fush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: ₩ash 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.

SECTION 4: First aid measures 4.2 Most important symptoms and effects, both acute and delayed Over-exposure signs/symptoms 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 : In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician The exposed person may need to be kept under medical surveillance for 48 hours. Specific treatments : No specific treatment. SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing : Use dry chemical, CO2, water spray (fog) or foam. Use an extinguishing agent media suitable for the surrounding fire. Unsuitable extinguishing : Do not use water jet. media 5.2 Special hazards arising from the substance or mixture Hazards from the : In a fire or if heated, a pressure increase will occur and the container may burst. substance or mixture Hazardous combustion : Decomposition products may include the following materials: products carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides hydrogen chloride gas 5.3 Advice for firefighters Special protective actions : Promptly isolate the scene by removing all persons from the vicinity of the incident if for fire-fighters there is a fire. No action shall be taken involving any personal risk or without suitable training. **Special protective** : Fire-fighters should wear appropriate protective equipment and self-contained equipment for fire-fighters breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Additional information : Not considered to be a product presenting a risk of explosion.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	teo	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 containment 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: P ut 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

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

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
₩ydrochloric acid	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 8 mg/m ³ 15 minutes. Form: (gas and aerosol mists) STEL: 5 ppm 15 minutes. Form: (gas and aerosol mists) TWA: 2 mg/m ³ 8 hours. Form: (gas and aerosol mists) TWA: 1 ppm 8 hours. Form: (gas and aerosol mists)

Biological exposure indices

None known.

SECTION 8: Exposure controls/personal protection : Reference should be made to appropriate monitoring standards. Reference to **Recommended monitoring** national guidance documents for methods for the determination of hazardous procedures substances will also be required. **DNELs/DMELs DNEL/DMEL Summary** : Not applicable. **PNECs PNEC Summary** : Not applicable. 8.2 Exposure controls Appropriate engineering : Sood general ventilation should be sufficient to control worker exposure to airborne controls contaminants. Individual protection measures 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. : Safety eyewear complying with an approved standard should be used when a risk Eye/face protection 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: Wear tightly-sealed safety glasses. (EN 166, splash goggles) 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Recommended: Wear suitable gloves tested to EN374. : Personal protective equipment for the body should be selected based on the task **Body protection** 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** 5 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. Recommended: Combination filtering device (DIN EN 14387). Filter type: AB (P2). Emissions from ventilation or work process equipment should be checked to ensure **Environmental exposure** 1 controls 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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>				
Physical state	: Liquid.			
Colour	: 尼olourless. [Transparent]			
Odour	: 🗭dourless.			
Odour threshold	: Not applicable.			
Melting point/freezing point	: Not available.			
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SECTION 9: Physical and chemical properties

	• •	
Initial boiling point and boiling range	: Not available.	
Flammability (solid, gas)	: Not available.	
Upper/lower flammability or explosive limits	: Not available.	
Flash point	: Not available.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
рН	: 7.4	
Viscosity	: Not available.	
Solubility in water	: Not available.	
Miscible with water	: Yes.	
Partition coefficient: n-octanol/ water	: Not applicable.	
Vapour pressure	: Not available.	
Relative density	: Not available.	
Vapour density	: Not available.	
Explosive properties	: Not considered to be a product presenting a risk of explosion.	
Oxidising properties	: Not available.	
Particle characteristics		
Median particle size	: Not applicable.	

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.
10.4 Conditions to avoid	: Keep away from heat, sparks and flame.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidising agents.
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						
Conclusion/Summary	: Not available.					
Acute toxicity estimates						
Not available.						
Irritation/Corrosion						
Conclusion/Summary						
Skin	: Not available.					
Eyes	: Not available.					
Respiratory	: Not available.					
Sensitisation						
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SECTION 11: Toxicological information

Conclusion/Summary	
Skin	: Not available.
Respiratory	: Not available.
<u>Mutagenicity</u>	
Conclusion/Summary	: Not available.
Carcinogenicity	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
Teratogenicity	
Conclusion/Summary	: Not available.
Specific target organ toxic	<u>ity (single exposure)</u>

Product/ingr	edient name	Category	Route of exposure	Target organs
hydrochloric acid		Category 3	-	Respiratory tract irritation
Specific target organ toxicity	(repeated exposure)			
Not available.				
Aspiration hazard Not available.				
Information on likely routes of exposure	: Not available.			
Potential acute health effects				
Eye contact	: No known significant effects	s or critical hazards.		
Inhalation	Inhalation : No known significant effects or critical hazards.			
Skin contact	ntact : No known significant effects or critical hazards.			
Ingestion	: No known significant effects	s or critical hazards.		
Symptoms related to the phys	sical, chemical and toxicologi	cal characteristics	2	
Eye contact	: No specific data.			
Inhalation	: No specific data.			
Skin contact :	: No specific data.			
Ingestion	: No specific data.			
Delayed and immediate effect	s as well as chronic effects f	rom short and long	<u>g-term exposure</u>	
<u>Short term exposure</u>				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
<u>Long term exposure</u>				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Potential chronic health effe Not available.	<u>cts</u>			
Conclusion/Summary	: Not available.			
General	: No known significant effects	s or critical hazards.		
Carcinogenicity	: No known significant effects	s or critical hazards.		

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Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	: Not available.
SECTION 12: Ecol	ogical information
12.1 Toxicity	
Conclusion/Summary	: Not available.
12.2 Persistence and degr	radability
Conclusion/Summary	: There are no data available on the mixture itself.
12.3 Bioaccumulative pote	ential
Not available.	
12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
	: Not available.

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

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

13.1 Waste treatment methods

<u>Product</u>		
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	₩ithin 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.	
Special precautions	Phis 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.	

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SECTION 14: Transport information

			IMDO	
	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)	-	-	-	-
Label				
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	Marine Pollutant: No	No.

14.6 Special precautions for user: **Transport 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 applicable. according to IMO instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

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

No listed substance

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions : Isted (integrated pollution prevention and control) -Air

SECTION 15: Regulatory information

: Not listed Industrial emissions (integrated pollution prevention and control) -Water 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. **Inventory list** Australia : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted. **Eurasian Economic Union** : **Russian Federation inventory**: All components are listed or exempted. Japan : Japan inventory (CSCL): All components are listed or exempted. **New Zealand** : All components are listed or exempted. Philippines : All components are listed or exempted. **Republic of Korea** : All components are listed or exempted. Taiwan : All components are listed or exempted. Thailand : All components are listed or exempted. Turkey : All components are listed or exempted. **United States** : All components are active or exempted. Viet Nam : All components are listed or exempted. 15.2 Chemical safety : No Chemical Safety Assessment has been carried out. assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version. Abbreviations and acronyms : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate **BCF = Bioconcentration Factor** 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 EWC = European Waste Catalogue IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 Date of issue/Date of revision : 08/02/2024 Date of previous issue :01/11/2022 Version : 3

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SECTION 16: Other information

as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by
Rail
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Not classified.

Full text of abbreviated H statements

⊮ 314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

Full text of classifications

<mark>E</mark> ye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	

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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.