

SAFETY DATA SHEET

Quenching Buffer Kit, Solution 1

Section 1. Identification

Quenching Buffer Kit, Solution 1	: Product name
BU08, BU08-L	: Product code
Not available.	: Other means of identification
Professional use. Use in laboratories: Research.	: Product use
Lunaphore Technologies SA Route de Lully 5C, CH-1131 Tolochenaz, Switzerland + 41 800 84 86 89 support-tech@lunaphore.com	: Supplier's details
CHEMTREC: +972 3-763-0639 (Local)	: e-mail address of person responsible for this SDS
	: Emergency telephone number

Section 2. Hazard identification

Classification of the substance or mixture

Mixture : **Product definition**

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

Label elements

No signal word. : **Signal word**

No known significant effects or critical hazards. : **Hazard statements**

Precautionary statements

Not applicable. : **Prevention**

Not applicable. : **Response**

Not applicable. : **Storage**

Not applicable. : **Disposal**

: **Hazardous ingredients**

EUH210 - Safety data sheet available on request. : **Supplemental label elements**

Not applicable. : **Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

2.3 Other hazards

Section 2. Hazard identification

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

: Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

None known.

: Other hazards which do not result in classification

Section 3. Composition/information on ingredients

Mixture

: 3.2 Mixtures

Type	Classification	%	Identifiers	Product/ingredient name
<input checked="" type="checkbox"/> [2]	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above.	≤2	EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	Hydrochloric acid

Specific Conc. Limits, M-factors and ATEs	Product/ingredient name
<input checked="" type="checkbox"/> Skin Corr. 1B, H314: C ≥ 25% Skin Irrit. 2, H315: 10% ≤ C < 25% Eye Dam. 1, H318: C ≥ 25% Eye Irrit. 2, H319: 10% ≤ C < 25% STOT SE 3, H335: C ≥ 10%	Hydrochloric acid

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

[1] 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.

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Section 4. First aid measures

Description of necessary first aid measures

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. : **Eye contact**

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. : **Inhalation**

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. : **Skin contact**

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. : **Ingestion**

Most important symptoms/effects, acute and delayed

Potential acute health effects

No known significant effects or critical hazards. : **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**

Section 4. First aid measures

Over-exposure signs/symptoms

<input checked="" type="checkbox"/> No specific data.	: Eye contact
<input checked="" type="checkbox"/> No specific data.	: Inhalation
<input checked="" type="checkbox"/> No specific data.	: Skin contact
No specific data.	: Ingestion

Indication of immediate medical attention and special treatment needed, if necessary

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.	: Notes to physician
No specific treatment.	: Specific treatments
<input checked="" type="checkbox"/> No action shall be taken involving any personal risk or without suitable training.	: Protection of first-aiders

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Use dry chemical, CO ₂ , water spray (fog) or foam. Use an extinguishing agent suitable for the surrounding fire.	: Suitable extinguishing media
Do not use water jet.	: Unsuitable extinguishing media

In a fire or if heated, a pressure increase will occur and the container may burst.	: Specific hazards arising from the chemical
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Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides hydrogen chloride gas	: Hazardous thermal decomposition products
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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 actions 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.	: Special protective equipment for fire-fighters
<input checked="" type="checkbox"/> Not considered to be a product presenting a risk of explosion.	: Remark (Explosibility)

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

<input checked="" type="checkbox"/> 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 non-emergency personnel
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".	: For emergency responders
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).	: Environmental precautions

Methods and material for containment and cleaning up

Section 6. Accidental release measures

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. : **Small 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. : **Large spill**

Section 7. Handling and storage

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). : **Protective measures**
 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. : **Advice on general occupational hygiene**

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. : **Conditions for safe storage, including any incompatibilities**

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Exposure limits	Ingredient name
EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 5 ppm 8 hours. TWA: 8 mg/m ³ 8 hours. STEL: 10 ppm 15 minutes. STEL: 15 mg/m ³ 15 minutes.	Hydrochloric acid

Biological exposure indices

Exposure indices	Ingredient name
No exposure indices known.	

Good general ventilation should be sufficient to control worker exposure to airborne contaminants. : **Appropriate engineering 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. : **Environmental exposure controls**

Individual protection measures

Section 8. Exposure controls/personal protection

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. : **Hygiene measures**

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 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. : **Eye/face protection**

Skin 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. : **Hand 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. : **Body 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. : **Other skin 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. : **Respiratory protection**

Section 9. Physical and chemical properties and safety characteristics

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


Appearance

Liquid.	: Physical state
<input checked="" type="checkbox"/> Colourless. [Transparent]	: Colour
<input checked="" type="checkbox"/> Odourless.	: Odour
<input checked="" type="checkbox"/> Not applicable.	: Odour threshold
<input checked="" type="checkbox"/> 7.4	: pH
Not available.	: Melting point/freezing point
Not available.	: Boiling point, initial boiling point, and boiling range
Not available.	: Flash point
Not available.	: Flammability
Not available.	: Lower and upper explosion limit/flammability limit
Not available.	: Vapour pressure
Not available.	: Relative vapour density
Not available.	: Relative density
Not available.	: Solubility in water
Yes.	: Miscible with water
Not applicable.	: Partition coefficient: n-octanol/water

Section 9. Physical and chemical properties and safety characteristics

Not available.	: Auto-ignition temperature
Not available.	: Decomposition temperature
Not available.	: Viscosity
<u>Particle characteristics</u>	
Not applicable.	: Median particle size

Section 10. Stability and reactivity

No specific test data related to reactivity available for this product or its ingredients.	: Reactivity
The product is stable.	: Chemical stability
Under normal conditions of storage and use, hazardous reactions will not occur.	: Possibility of hazardous reactions
 Keep away from heat, sparks and flame.	: Conditions to avoid
Reactive or incompatible with the following materials: oxidising agents.	: Incompatible materials
Under normal conditions of storage and use, hazardous decomposition products should not be produced.	: Hazardous decomposition products

Section 11. Toxicological information

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not available. : Conclusion/Summary

Acute toxicity estimates

Not available.

Irritation/Corrosion

 Not available.

Conclusion/Summary

 Not available.

: Skin

 Not available.

: Eyes

: Respiratory

Sensitisation

Not available.

Conclusion/Summary

Not available.

: Skin

: Respiratory

Mutagenicity

Not available.

: Conclusion/Summary

Carcinogenicity

Not available.

: Conclusion/Summary

Reproductive toxicity

Not available.

: Conclusion/Summary

Teratogenicity

Not available.

: Conclusion/Summary

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Target organs	Route of exposure	Category	Product/ingredient name
Respiratory tract irritation	hydrochloric acid	Category 3	Hydrochloric acid

Specific target organ toxicity (repeated exposure)

Aspiration hazard

Not available.

: Information on likely routes of exposure

Potential acute health effects

No known significant effects or critical hazards.

: 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

Symptoms related to the physical, chemical and toxicological characteristics

No specific data.

: Eye contact

No specific data.

: Inhalation

No specific data.

: Skin contact

No specific data.

: Ingestion

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Not available.

: Potential immediate effects

Not available.

: Potential delayed effects

Long term exposure

Not available.

: Potential immediate effects

Not available.

: Potential delayed effects

Potential chronic health effects

Not available.

Not available.

: Conclusion/Summary

No known significant effects or critical hazards.

: 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

Information on other hazards

Endocrine disrupting properties

No known significant effects or critical hazards (Human Health).

Other information

Not available.

Section 12. Ecological information

Toxicity

Not available. : **Conclusion/Summary**

Persistence and degradability

There are no data available on the mixture itself. : **Conclusion/Summary**

Bioaccumulative potential

Not available.

Mobility in soil

Not available. : **Soil/water partition coefficient (K_{oc})**

Not available. : **Mobility**

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

Endocrine disrupting properties

No known significant effects or critical hazards (Environment).

Section 13. Disposal considerations

The generation of waste should be avoided or minimised wherever possible. : **Disposal methods**

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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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 spill material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

IATA	IMDG	UN	
Not regulated.	Not regulated.	Not regulated.	UN number
-	-	-	UN proper shipping name
-	-	-	Transport hazard class(es)
			Label
-	-	-	Packing group
No.	Marine Pollutant: No	No.	Environmental hazards

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. : **Special precautions for user**

Section 14. Transport information

Not applicable.

: Transport in bulk according to IMO instruments

Section 15. Regulatory information

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

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

All components are listed or exempted.

: Australia

All components are listed or exempted.

: Canada

All components are listed or exempted.

: China

Russian Federation inventory: All components are listed or exempted.

: Eurasian Economic Union

Japan inventory (CSCL):

: Japan

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.

All components are listed or exempted.

: Thailand

All components are listed or exempted.

: Turkey

All components are active or exempted.

: United States

All components are listed or exempted.

: Viet Nam

Section 16. Other information

History

08/02/2024

: Date of printing

08/02/2024

: Date of issue/Date of revision

04/11/2022

: Date of previous issue

3

: Version

ATE = Acute Toxicity Estimate

: Key to abbreviations

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

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 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group

UN = United Nations

Procedure used to derive the classification

Section 16. Other information

Justification	Classification
Not classified.	

Not available.

: References

Indicates information that has changed from previously issued version.

Notice to reader

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