Running buffer 10x safety document

Buffer solutions and beads kit

2024

LUMICKS

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

1.1 Product identifier

Product name
Running buffer 10x (containing 0.33% sodium azide)

1.2 Relevant identified Uses of the Substances or Mixtures & Uses advised against

Relevant identified uses
Product intended for scientific research.

Use advised against
Not for domestic or food/drug/cosmetic use.

1.3 Details of the supplier of the safety data sheet

LUMICKS, Paalbergweg 3, 1105 AG Amsterdam, The Netherlands
+31 (0) 20 220 0817 | store@lumicks.com

1.4 Emergency Response for Hazardous Materials

Emergency phone number
+31 (0) 20 220 0817

Opening hours
9.00-17.00 CET

Section 2: Hazards identification

2.1 Classification of the substance or mixture

- Running buffer 10x contains sodium azide (0.33% w/v) as a preservative
- **Classification according to regulation (EC) No 1272/2008 [CLP]**
- Acute toxicity 2
- Aquatic acute 1
- Aquatic chronic 1

2.2 Label elements

Hazard pictograms

Signal word

Danger

Hazard statements

H300
Fatal if swallowed.

H400
Very toxic to aquatic life.

H410
Very toxic to aquatic life with long lasting effects.

Supplemental hazard information:
EUH032
Contact with acids liberates very toxic gas.

Precautionary statements

P233
Keep container tightly closed.

P260
Do not breathe dust/fume/gas/mist/vapours/spray.

P264
Wash hands thoroughly after handling.

P270
Do not eat, drink or smoke when using this product.

p271
Use only in a well-ventilated area.

P273
Avoid release to the environment.

P280
Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P310 + P330
IF SWALLOWED: immediately call a POISON CENTER or doctor/physician and rinse mouth.

P302 + P350 + P361
IF ON SKIN: Gently wash with plenty of soap and water and remove/take off immediately all contaminated clothing.

P304 + P340
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P391
Collect spillage.

P403
Store in a well ventilated place.

P405
Store locked up.

P501
Dispose of contents/container in accordance with local/regional/national/international regulation.

Section 3: Composition/information on ingredients

The non-hazardous constituents of Running buffer 10x are not listed here.

CAS no: 26628-22-8

EC no: 247-852-1

Index no: 011-004-00-7

% (w/v): 0.33

Name: Sodium azide

Classification according to Regulation (EC) No 1272/2008 (CLP): Acute tox 2, Aquatic acute 1, Aquatic Chronic 1

Section 4: First aid measures

4.1 Description of first aid measures

General advice
Use personal protective equipment. If you feel unwell, seek medical advice (show the label where possible).

In case of inhalation
Move victim to fresh air and keep at rest in a position comfortable for breathing.

In case of skin contact
Remove contaminated clothing. Rinse the affected skin thoroughly with running water and soap. If irritation persists, consult a physician.

In case of eye contact
Remove contact lenses. Rinse eyes thoroughly under running water with the eyelids wide open with eye washing bottle, eye douche or running water.

In case of ingestion
Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact
Causes skin irritation.

Symptoms/injuries after eye contact
Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatments needed

Treat symptomatically.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Co-ordinate fire-fighting measures to the fire surroundings
Carbon dioxide, dry chemical powder, foam, water

Unsuitable extinguishing media
None

5.2 Special hazards arising from the substance or mixture

Formation of hazardous and caustic vapor-air mixtures possible.

5.3 Advice for firefighters

Firefighting instructions
Keep containers cool with a water spray. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering the environment.

Protection during firefighting
Do not enter fire area without proper protective equipment, including respiratory protection.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

In case of spills, leaks or releases, ventilate the area and do not breath vapours. Avoid contact with skin and eyes.

6.2 Environmental precautions

Prevent spills from entering drains, surface and ground water.

6.3 Methods and material for containment and cleaning up

Clear spills immediately. Bind any escaping liquid with inert absorbent. Do not touch spilled material without suitable protection. After material us completely picked up, wash the spill site with soap and water and ventilate the area. Put all wastes in plastic bags for disposal and seal it tightly. Remove, clean or dispose of contaminated clothing.

Section 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection. Wash hands after use with mild soap and water before eating, drinking of smoking.

7.2 Conditions for safe storage, including any incompatibilities

Keep original product package. Store at room temperature. Store away from direct sunlight, in a well-ventilated, dry place. Store upright. Keep container tightly closed. Keep away from strong acids and strong oxidisers.

Formation of hazardous and caustic vapor-air mixtures possible.

7.3 Specific end use(s)

Product intended for scientific research.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Sodium azide
EC number: 247-852-1 CAS number: 26628-22-8

DNELs = Derived No Effect Level

Workers long term exposure via inhalation route
0.164 mg/m³

Workers long term exposure via dermal route
46.7 µg/kg bw/day

8.2 Exposure controls

Appropriate engineering controls
Use only with adequate ventilation.

Individual protection measures
- Eye protection: Safety glasses
- Hand protection: Chemical resistant gloves
- Skin protection: Protective clothing
- Respiratory protection: Respiratory protection not required in normal conditions

Other information
Do not eat, drink or smoke during use.

Section 9: Physical and chemical properties

The properties listed below are of the mixture ‘running buffer 10x’.

Physical state
Liquid

Colour
Colourless

Odour
Not available

Melting point
Not available

Boiling point
Not available

Flammability
Not available

Explosion limit
Not available

Flash point
Not available

Auto-ignition temperature
Not available

Decomposition temperature
Not available

pH
6.8

Kinematic viscosity
Not available

Solubility in water
Soluble

Vapour pressure
Not available

Density and/or relative density
Not available

Relative vapour density
Not available

Section 10: Stability and reactivity

10.1 Reactivity

No additional information available.

10.2 Chemical stability

No known instability.

10.3 Possibility of hazardous reactions

Liberation of toxic fumes when in contact with acids.

10.4 Conditions to avoid

Avoid direct sunlight and high temperatures or temperatures below 0 °C.

10.5 Incompatible materials

Incompatible with strong acids, strong oxidising agents or heavy metals.

10.6 Hazardous decomposition products

In the original package, decompositions are not observed during the expiration period under recommended conditions.

Section 11: Toxicological information

Data for sodium azide, not for the mixture.

Acute toxicity

- **Oral LD50:** 27 mg/kg (Rat, 4h)
- **Dermal LD50:** 20 mg/kg (Rabbit, 4h)
- **Inhalation LC50:** 0.054-0.52 mg/l (Rat, 4h)

Skin corrosion/irritation
Not classified

Serious eye damage/irritation
Not classified

Respiratory or skin sensitization
Not classified

Germ cell mutagenicity
Not classified

Carcinogenicity
Not classified

Reproductive toxicity
Not classified

STOT-single exposure
Not classified

STOT-repeated exposures
Not classified

Aspiration hazard
Not classified

Section 12: Ecological information

Data for sodium hypochlorite, not for the mixture.

- **Toxicity to fish (LC50):** 0.68 mg/l (Lepomis sp, 96 h)
- **Toxicity to algae (EC50):** 348 µg/l (Pseudokirchneriella subcapitata, 96 h)

Persistence and degradability
May cause long-term adverse effects in the environment

Bioaccumulative potential
This material is not high bioaccumulatable

Mobility in soil
Not available

Results of OBT and vPvP assessment
Not applicable

Endocrine disrupting properties
This product does not contain any known or suspected endocrine disruptors

Other adverse effects
Not available

Section 13: Disposal considerations

Waste disposal recommendations
Dispose in a safe manner in accordance with local/regional/national/international regulations. Waste should not be disposed of by release into sewers.

Ecology – waste materials
Avoid release to the environment.

Section 14: Transport information

Special shipping information
This product is exempt from the ADR/ ICAO/IATA rules for shipping dangerous goods because of the low total quantity of sodium azide. (< 0.1 gr per tube).

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the Regulation (EC) No 1278/2008 (CLP).

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this mixture by the supplier.

Section 16: Other information

Abbreviations

ADR	Chemical Abstracts Service
CAS	Chemical Abstracts Service
CET	Central European time
CLP	Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures
EC	European Community
EC50	Half maximal effective concentration
ECHA	European Chemicals Agency
ICAO/IATA	Airport code or location indicator/ International Air Transport Association
LC50	Median lethal concentration
LD50	Median lethal dose
REACH	Registration, Evaluation, Authorization and restriction of Chemicals

Sources

8.1	EHCA
11	ECHA
12	Bills (1988) / Hickey et al. (1991)

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