

Safety Data Sheet

Elution Buffer

SECTION 1: Identification

1.1 Product identifier

Product name	Elution Buffer (P/N 65I-00005)
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1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Diagnostic testing
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1.3 Supplier's details

Name	SomaLogic
Address	2945 Wilderness Place Boulder, CO 80301 USA
Email	techsupport@somalogic.com

1.3 Emergency phone number(s)

For Hazardous Materials [or Dangerous Goods], Incident Spill, Leak, Fire, Exposure, or Accident call CHEMTREC Day or Night

Within USA and Canada	1-800-424-9300 SomaLogic Account #: CCN792766
Outside USA and Canada	+1 703-527-3887 (collect calls accepted)

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with OSHA (29 CFR 1910.1200)

Serious Eye damage/irritation Cat. 2B

2.2 GHS label elements, including precautionary statements

Pictogram	
Signal word	Warning

Hazard statement(s)

H320	Causes eye irritation.
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Precautionary statement(s)

Prevention

P264	Wash face, hands, and any exposed skin thoroughly after handling.
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Response

P302+P352	IF ON SKIN: wash with plenty of water.
P332+P313	IF SKIN irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

2.3 Other hazards which do not result in classification

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

3.1 Substances

Components

Component	CAS No.	EC no.	Weight %
Sodium perchlorate	7601-89-0	231-511-9	23%
PIPES	5625-37-6	227-057-6	1%
Water (Other Nonhazardous)	7732-18-5	231-791-2	76%

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled	Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
In case of skin contact	Remove contaminated clothing. Wash off with plenty of water for at least 15 minutes. If skin irritation persists, consult a physician.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the chemical

Hydrogen chloride gas, Sodium oxides

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure adequate ventilation. Wear personal protective equipment. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Ensure adequate ventilation, especially in confined areas. Ensure that safety shower and eyewash stations are close to work area.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection	Safety glasses with side-shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body protection	Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Thermal hazards	No data available.
Environmental exposure controls	No data available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	Clear liquid
Odor	Odorless
Odor threshold	No data available.
pH	6.5–7.5
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	No data available.

Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.
Other safety information	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

Other decomposition products - no data available.

SECTION 11: Toxicological information

Information on toxicological effects - Sodium Perchlorate

Acute toxicity	LD50 Oral – Rat – male and female -2,100 mg/kg LD50 Dermal – Rat – male and female - >2,000 mg/kg (OECD Test Guideline 402)
Skin corrosion/irritation	Skin - Rabbit Result: slight irritation (OECD Test Guideline 404)
Serious eye damage/irritation	Eyes - Rabbit Result: Irritations (OECD Test Guideline 405)
Respiratory or skin sensitization	Local lymph node assay (LLNA) – Mouse Result: negative (OECD Test Guideline 429)
Germ cell mutagenicity	Ames test Salmonella typhimurium Result: negative Mutagenicity (mammalian cell test): chromosome aberration Human lymphocytes Result: negative In vitro mammalian cell gene mutation test Mouse lymphoma test Result: negative
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No data available.
Summary of evaluation of the CMR properties	No data available.
STOT-single exposure	No data available.
STOT-repeated exposure	Thyroid
Aspiration hazard	No data available.

Additional information	Repeated dose toxicity - Rat - male and female - Oral - 90 d - No observed adverse effect level - 1 mg/kg Subchronic toxicity The value is given in analogy to the following substances: RTECS: SC9800000 Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence
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SECTION 12: Ecological information

Toxicity – Sodium Perchlorate

12.1 Toxicity to fish

Static test LC50 – Danio rerio (zebra fish) – > 1,000 mg/l – 96 h (OECD Test Guideline 203)

12.2 Toxicity to daphnia and other aquatic invertebrates

Static test EC50 – Daphnia magna (Water flea) – > 100 mg/l – 48 h (OECD Test Guideline 202)

12.3 Toxicity to algae

Static test EC10 - Pseudokirchneriella subcapitata (green algae) - > 435.7 mg/l - 72 h (OECD Test Guideline 201)

Static test EC50 - Pseudokirchneriella subcapitata (green algae) - > 435.7 mg/l - 72 h (OECD Test Guideline 201)

12.4 Toxicity to bacteria

static test EC50 – activated sludge – > 700 mg/l – 3 h (ISO 8192).

Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available
Results of PBT and vPvB assessment	No data available
Other adverse effects	No data available.

SECTION 13: Disposal considerations

Disposal of the product	Contact a licensed professional waste disposal service to dispose of this material.
Disposal of contaminated packaging	Dispose of as unused product.
Waste treatment	No data available.
Sewage disposal	No data available.
Other disposal recommendations	No data available.

SECTION 14: Transport information

DOT (US)	Not regulated.
IMDG	Not regulated.
IATA	Not regulated.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

New Jersey Right To Know Components

Common name	SODIUM PERCHLORATE
CAS number	7601-89-0

Pennsylvania Right To Know Components

Chemical Name	Perchloric acid, Sodium Salt
CAS number	7601-89-0

Massachusetts Right To Know Components

Chemical Name	Sodium Perchlorate
CAS Number	7601-89-0

SECTION 16: Other information

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall SomaLogic Operating Co., Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if SomaLogic Operating Co., Inc. has been advised of the possibility of such damages.