



Material Safety Data Sheet

Section 1. Identification of the Substance/Mixture

Product name: Desulphonation Buffer

Manufacturer/Supplier identification

ABP Biosciences
7040 Virginia Manor Road, Beltsville, MD 20705, USA
Web: www.abpbio.com
Tel: 301-658-7993
Email: info@abpbio.com

For research use only. Not for use in diagnosis procedures

Section 2. Hazards Identification

GHS Classification

Signal Word:

Danger



Hazard pictograms:

Health hazards:

Skin corrosion/irritation	Category 1
Specific target organ systemic toxicity (single exposure)	Category 3
Serious eye damage/irritation	Category 1

Physical hazards:

GHS Physical Hazard 1	Flammable liquids
GHS Physical Hazard Category Number	Category 3

Environmental hazards:

Not classified

Hazard Statements:

H226 Flammable liquid and vapor.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.

Precautionary Statements

Prevention:

P264 - Wash hands thoroughly after handling
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233 - Keep container tightly closed
P280 - Wear protective gloves/protective clothing/eye protection/face protection

Response: P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 - Immediately call a POISON CENTER or doctor/physician.
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

Disposal: P501 - Dispose of contents/container to an approved waste disposal plant.

Other hazards: Not Applicable.

HMIS

Health	3
Flammability	3
Reactivity	0

Section 3. Composition/Information on Ingredients

Substance name: Desulphonation Buffer

Chemical Name	CAS No.	Weight-%
Sodium hydroxide	1310-73-2	<2.5
Ethyl alcohol	64-17-5	60-80

We recommend handling all chemicals with caution.

Section 4. First Aid Measures

Description of first aid measures

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Immediate medical attention is required.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a physician.

Notes to Physician Treat symptomatically.

Most important symptoms and effects, both acute and delayed

H226 - Flammable liquid and vapor. H314 - Causes severe skin burns and eye damage. H318 - Causes serious eye damage. H336 - May cause drowsiness or dizziness.

Indication of any immediate medical attention and special treatment needed



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IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Section 5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.
Unsuitable extinguishing media No information available.

Special hazards arising from the substance or mixture

Not known

Protective equipment and precautions for firefighters

Standard procedure for chemical fires.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation
Always wear recommended Personal Protective Equipment
Use personal protection equipment
See section 8 for more information

Environmental precautions

No special environmental precautions required.

Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections

See section 8 for more information.

Section 7. Handling and Storage

Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Specific end use(s)

For research use only.

Section 8. Exposure Controls/Personal Protection

Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

Ingredients	CAS No.
Sodium hydroxide	1310-73-2
Ethyl alcohol	64-17-5

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Exposure controls

Personal Protective Equipment

Respiratory protection In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

Hand protection Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

Eye protection Tight sealing safety goggles.

Skin and Body Protection Wear suitable protective clothing.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

Prevent product from entering drains. Do not allow material to contaminate ground water system.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	liquid
Odor	No data
Odor Threshold	No data
Melting point / melting range	°C No data
Boiling point / boiling range	°C No data
Flash point	°C No data
Autoignition Temperature	°C No data
Decomposition temperature	°C No data
Evaporation rate	No data
Flammability (solid, gas)	No data
Upper explosion limit	No data
Lower explosion limit	No data
Vapor Pressure	No data
Vapor density	No data
Relative density	No data
Specific gravity	No data
Solubility	No data
Partition coefficient:	



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n-octanol/water No data
Viscosity No data
Explosive properties No data
Oxidizing properties No data
Other information No data.

Section 10. Stability and Reactivity

Reactivity No decomposition if stored and applied as directed.
Chemical stability Stable under normal conditions.
Possibility of hazardous reactions Hazardous reaction has not been reported.
Conditions to avoid No information available.
Incompatible materials No dangerous reaction known under conditions of normal use.
Hazardous decomposition products No data available

Section 11. Toxicological information

Information on toxicological effects

Chemical Name	ID50 (oral, rat/mouse)	ID50 (dermal, rat/rabbit)	ID50 (inhalation, rat/mouse)
Sodium hydroxide	500 mg/kg	1350 mg/kg	No data available
Ethyl alcohol	7060 mg/kg	No data available	124.7 mg/L

Principal Routes of Exposure

Irritation Serious Eye Damage / Eye Irritation.
Corrosivity Causes severe skin burns and eye damage
Sensitization Data are conclusive but insufficient for classification
Specific target organ toxicity (STOT)–single exposure May cause drowsiness or dizziness
Specific target organ toxicity (STOT)–repeated exposure Data are conclusive but insufficient for classification
Carcinogenicity Data are conclusive but insufficient for classification
Germ cell mutagenicity Data are conclusive but insufficient for classification
Reproductive toxicity Data are conclusive but insufficient for classification
Aspiration hazard Data are conclusive but insufficient for classification

Section 12. Ecological Information

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Results of PBT and vPvB assessment

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

Other adverse effects No information available.

Section 13. Disposal considerations

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations. Do not empty into drains. Do not dispose of waste into sewer.

Section 14. Transport Information

IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number Not Applicable

UN proper shipping name Not Applicable

Transport hazard class(es) Not Applicable

Packing group Not Applicable

Environmental hazards Not Applicable

Special precautions for user Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not Applicable.

Section 15. Regulatory Information

US Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

D2B - Toxic materials

This product has been classified in accordance with the hazard criteria of the Controlled Products



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Regulations (CPR) and the SDS contains all the information required by the CPR.

Section 16. Other Information

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

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End of Material Safety Data Sheet