ABSELION™
PRECISION MADE PRACTICAL

SAFETY DATA SHEET

REGENERATION BUFFER | ANTIBODY QUANTIFICATION

A1-8022

VERSION 2.0
REVISION DATE: 29 Aug. 2025
SUPERSEDES DATE: 29 Aug. 2025

SCAN TO VIEW
ALL RESOURCES

ACCORDING TO REGULATION (EC) NO. 1907/2006 (REACH)

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

1.1 PRODUCT IDENTIFIER

Product Name	**Regeneration Buffer|Antibody Quantification**
Product Code	A1-8022
CAS Number	Not Available
EC Number	Not Available

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

For research use only.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company Name	**HexagonFab Ltd. (trading as Abselion™)**
Address	Unit 1, Cambridge House, Oakington Road, Cambridge, UK, CB3 0QH
Telephone	+44 7425 068271 (office hours 9:00 to 17:00 Mon-Fri)
Email	info@abselion.com

1.4 EMERGENCY TELEPHONE NUMBER

During normal office hours: 07425 068271 (9:00-17:00 Mon-Fri)

In the event of medical emergency, call for an ambulance or emergency medical assistance immediately.

SECTION 2: Hazards identification

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No 1272/2008 (CLP)

Met. Corr. 1, H290

Hazard statements for physical hazards

H290 May be corrosive to metals.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended.

Not classified as hazardous at the given concentration under Directive 67/548/EEC or 1999/45/EC.

2.2 LABEL ELEMENTS

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Pictogram:

GHS05

Signal Word:

Warning

Hazard Statements:

H290 May be corrosive to metals.

Precautionary Statements:

P234 Keep only in original packaging.

P262 Do not get in eyes, on skin, or on clothing.

P260 Do not breathe gas/vapours/spray.

P390 Absorb spillage to prevent material damage.

P501 Dispose of contents/container to a licensed disposal company.

2.3 OTHER HAZARDS

None known

SECTION 3: Composition/information on ingredients

3.2 MIXTURES

Component	CAS-No.	EINECS-No.	Weight percent	REACH reg. no.	Classification (EC No 1272/2008)	SCL/M/ATE
Hydrochloric acid	231-595-7	231-598-3	0.1–1%	01-2119484862-27-XXXX	Met. Corr. 1; H290 Skin Corr. 1B; H314 STOT SE 3; H335	Skin Corr.1B; H314: C>=25%; Skin Irrit. 2; H315: 10%<=C<25% Eye Irrit.2; H319: 10%<=C<25% STOT SE 3; H335: C>=10%

Additional information: 10 mM glycine buffer solution - pH 1.5

SECTION 4: First aid measures

4.1 DESCRIPTION OF FIRST AID MEASURES

General Information

Move out of exposure area. Consult doctor if discomfort occurs. Show MSDS to responders.

Following skin contact

Remove contaminated clothing and shoes. Wash with soap and plenty of water. Seek medical attention if irritation develops.

Following eye contact

Rinse eyes thoroughly with water for at least 15 minutes. Consult a doctor. Seek medical attention if irritation persists.

Following ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water if conscious. Consult poison centre or medical personnel for actions to take.

Following inhalation

Move into fresh air. Seek medical attention for any breathing difficulty.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

All known important symptoms are described in Section 2 and/or Section 11. No other important symptoms to report.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No special treatment indicated. Provide treatment in accordance with exhibited symptoms.

SECTION 5: Firefighting measures.

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media

Water Spray, dry chemical, foam, carbon dioxide.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

The product itself does not burn. Acidic solutions can release corrosive vapors. In the case of thermal decomposition formation of dangerous gases possible.

5.3 ADVICE FOR FIRE FIGHTERS

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE.

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate

6.2 ENVIRONMENTAL PRECAUTIONS

Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3 METHODS AND MATERIALS FOR CLEANING UP

For containment

Ensure adequate ventilation. Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder). Send in suitable containers for recovery or disposal. After taking up the material dispose according to regulation

For cleaning up

Suitable material for diluting or neutralizing: Soda, Lime

6.4 REFERENCE TO OTHER SECTIONS

See section 7 for safe handling.

See section 8 for information on exposure controls/personal protection.

See section 13 for disposal information.

SECTION 7: Handling and storage

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid inhalation of vapours/spray and contact with skin and eyes. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Requirements for storage rooms and vessels

Keep/Store only in original container.

Keep container tightly closed.

Suitable floor material: Acid-resistant

Storage class:

12 non-combustible liquids that cannot be assigned to any of the above storage classes

Materials to avoid:

Do not store together with: Alkali, Oxidising agent, Metal

Further information on storage conditions:

Store and transport separate of food.

Keep container try and store at a cool place.

Protect from extreme heat and cold.

Keep in a cool, well-ventilated place.

7.3 SPECIFIC END USE(S)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 CONTROL PARAMETERS

DNEL worker

Substance name	CAS-No.	DNEL value	DNEL type	Remark
Hydrochloric acid	7647-01-0	8 mg/m^3	long-term inhalative (local)	
Hydrochloric acid	7647-01-0	15 mg/m^3	acute inhalative (local)	

DNEL consumer

Substance name	CAS-No.	DNEL value	DNEL type	Remark
Hydrochloric acid	7647-01-0	8 mg/m^3	long-term inhalative (local)	
Hydrochloric acid	7647-01-0	15 mg/m^3	acute inhalative (local)	

PNEC

Substance name	CAS-No.	PNEC value	PNEC type	Remark
Hydrochloric acid	7647-01-0	0.036 mg/L	aquatic, marine water	
Hydrochloric acid	7647-01-0	0.036 mg/L	aquatic, freshwater	
Hydrochloric acid	7647-01-0	0.036 mg/L	sewage treatment plant (STP)	

8.2 EXPOSURE CONTROLS

ENGINEERING MEASURES

Ensure adequate ventilation, especially in confined areas. Use in areas near a properly functional safety shower and eyewash station.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection:

Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product or ingredients.

Protection of hands:

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitril, 0,4 mm, 480min.

The selection of the suitable gloves does not only depend on different material, but also on further marks of quality and varies from manufacturer to manufacturer.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

The selected protective gloves have to comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374.

Eye protection:

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

Skin and Body protection:

Required properties: acid-resistant

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work. Do not eat or drink whilst working.

SECTION 9: Physical and chemical properties

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless
Physical States	Liquid
Odour	stinging
Odour Threshold	No data available
pH	pH 1.5
Melting point/freezing point	Melting point approx. 0 °C

Initial boiling point /boiling range	approx. 100 °C
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosion limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility(ies)	Soluble in water
Partition coefficient	No data available
Auto ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No unusual fire or explosion hazards noted
Oxidizing properties	No data available

9.2 OTHER INFORMATION

No further relevant information available.

SECTION 10: Stability and reactivity

10.1 REACTIVITY

No data available.

10.2 CHEMICAL STABILITY

Stable under recommended use and storage conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Reactions with metals, with evolution of hydrogen.

Reactions with alkalies.

10.4 CONDITIONS TO AVOID

Avoid heat and direct sunlight.

10.5 INCOMPATIBLE MATERIALS

Alkali (lye), (Light) Metals

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Hydrogen. Concerning possible decomposition products see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute Toxicity

Not classified as acutely toxic by oral, dermal, or inhalation routes.

Skin corrosion/irritation

Slight irritant effect possible.

Serious eye damage/irritation

May cause mild irritation.

Respiratory or skin sensitisation

No sensitising effect known.

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available

SECTION 12: Ecological information

12.1 TOXICITY:

No data available.

12.2 PERSISTENCE AND DEGRADABILITY:

No data available.

12.3 BIO-ACCUMULATIVE POTENTIAL:

No data available.

12.4 MOBILITY IN SOIL:

The product is soluble in water.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT:

No data available.

12.6 OTHER ADVERSE EFFECTS:

Additional ecotoxicological information

Ecological dates are not available.

Product is not allowed to be discharged into the ground water or aquatic environment.

Before discharge into sewage plants the product normally needs to be neutralised.

The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised.

Harmful effects in the aquatic environment by pH shifts.

SECTION 13: Disposal considerations

13.1 WASTE TREATMENT METHODS

General information

When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General

Applicable under all major carriers: IMDG, IATA, and ADR/RID

HazChem Code	2R
Hazard Diamond	blue 3, red 0, yellow 1
ERI-Card	8-03

Road/ Rail transport notes

UN number or ID number	UN 3264
UN proper shipping name	HYDROCHLORIC ACID
Transport hazard class(es)	8
Classification code	C1

Packing group	III
Environmental hazards	No
Limited quantity (LQ)	5 L
Special provisions	520
Tunnel restriction code	E

Sea transport notes

UN number or ID number	UN 3264
UN proper shipping name	HYDROCHLORIC ACID
Transport hazard class(es)	8
Packing group	III
Environmental hazards	No
Limited quantity (LQ)	5 L
Marine pollutant	No
EmS	F-A, S-B

Air transport notes

UN number or ID number	UN 3264
UN proper shipping name	HYDROCHLORIC ACID
Transport hazard class(es)	8
Packing group	III
Environmental hazards	No

14.1 UN NUMBER

UN 3264

14.2 UN PROPER SHIPPING NAME

HYDROCHLORIC ACID

14.3 TRANSPORT HAZARD CLASS(ES)

8

14.4 PACKING GROUP

III

14.5 ENVIRONMENTAL HAZARDS

Environmentally hazardous substance/marine pollutant

No.

14.6 SPECIAL PRECAUTIONS FOR USER

Not known.

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE

Not applicable.

SECTION 15: Regulatory information

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS /LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). This should be sufficient

15.2 CHEMICAL SAFETY ASSESSMENT:

No chemical safety assessment has been carried out

SECTION 16: Other information

General information Only trained personnel should use this material

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

Abbreviations and acronyms

RID: Rėglement international concernant le transport des marchandises par chemin de fer (Regulations Concerning the International transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord europėen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VbF: Verordnung ũber brennbare Flũssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative