# Vickers Laboratories Ltd - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1

Revision date: Date printed: 16 April 2021 03 February 2023

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# Section 1. Identification

1.1	Product Identifier	4031
	Product Name	BUFFER REAGENT (ADD-1)
	CAS Number REACH Registration No	Mixture A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.
1.2 F	Relevent identified uses of th Uses of Material	ne substance or mixure & uses advised against Chemical for industrial and laboratory use. Not suitable for domestic use.
1.3	Supplier	Vickers Laboratories Ltd
	VICKERS LABORATORIES	Grangefield Industrial Estate Richardshaw Road Pudsey West Yorkshire LS28 6QW UNITED KINGDOM

	Phone	44 0113 2362811
	Fax	+44(0)113 2362703
	Email	safety@viclabs.co.uk
	Website	www.viclabs.co.uk
1.4	Emergency Telephone	(08:00-16:30) +44(0) 113 2362811
		(24hr) 112

(Have this document to hand)

# Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

## Classification according to regulation 1272/2008/EC

Skin corrosion/irritation, category 1B Spec target organ tox - single, category 3 Hazard to aquatic environment, category 1

H314: Causes severe skin burns and eye damage. H335: May cause respiratory irritation. H400: Very toxic to aquatic life.

### 2.2 Label elements

## Labelling according to regulation 1272/2008/EC

Signal word

Danger

Hazard Pictograms



Causes severe skin burns and eye damage. Very toxic to aquatic life. May cause respiratory irritation.

Precautionary Statements

Do not breathe fume/vapours. Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. Avoid release to the environment.

## Section 3. Composition

#### 3.2 Mixtures

Component	CAS No. EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Ammonia	1336-21-6 231-635-3		11%	Skin Corr. 1A,STOT SE 3 (I),Aquatic Acute 1
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## Section 4. First Aid

#### 4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION.
Skin	Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.
Inhalation	Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If conscious place in a sitting position. OBTAIN MEDICAL ATTENTION URGENTLY.
Ingestion	If conscious give plenty of water to drink. Do not induce vomiting. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.
Personal protection for first aiders	Wear protective gloves / eye protection.

#### 4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

## 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

#### 5.1 Extinguishing media

Extinguishing Media	Water spray, dry powder, carbon dioxide or vaporising liquids.
Unsuitable Media	Nothing specified.

#### 5.2 Special hazards arising from the substance or mixture

May evolve toxic fumes if involved in a fire.

## 5.3 Advice for firefighters

Hazards

Advice for firefighters

Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.

# Section 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so.

### **6.2 Environmental precautions**

Enviromental

Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

#### 6.3 Methods and material for containment and cleaning up

Major Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.

Minor Spillage Contain and absorb on inert material. Neutralise with 5M hydrochloric acid. Transfer absorbent to container for removal. Wash area down with copious amounts of water.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

#### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage .

#### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

l	Component	CAS No	Concentration	Workplace Exposure Limits			
				Long Term (8hr	TWA)	Short Term 15min	period)
	Ammonia	1336-21-6	11%	25.0 ppm	18.0 mg/m-3	35.0 ppm	25.0 mg/m-3

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

#### 8.2 Exposure controls

Respiratory Protection	Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge respirator, or use self contained breathing apparatus.
Hand Protection	Use nitrile gloves or PVC gauntlets.
Eye Protection	Use tightly fitting chemical splash proof glasses or goggles.
Skin Protection	If skin contact or contamination of clothing is likely, protective clothing must be worn.
Special Hazards	No special precautions required.

## Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance	Clear colourless liquid.
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Odour	Pungent and intensely irritating.
pH	Not applicable
Boiling Point	Not available
Melting Point	Not applicable
Flash Point	Not applicable
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Auto Ignition	Not applicable
Explosive Properties	Not applicable
Oxidising Properties	No.
Vapour Pressure	Not applicable
Relative Density	Not available
Water Solubility	Not available

## 9.2 Other information

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# Section 10. Stability & Reactivity

10.1	Reactivity	No data available.
10.2	Chemical Stability	Stable under normal conditions
10.3	Possibility of hazardous reactions	No data available.
10.4	Conditions to Avoid	Avoid heat and contact with acids and acid fumes.
10.5	Incompatable Materials	Halogens and halogen compounds. Picric acid. Potassium chlorate. Mercury. Ethylene oxide. Dimethyl sulphate. Chromium trioxide and other chromium compounds.
10.6	Hazardous Decomposition Products	May produce hazardous fumes if involved in a fire.

# Section 11. Toxicological Information

## 11.1 Information on toxicological effects

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Eyes	The vapour will be extremely irritating to eyes and can cause chemical eye burns. Damage can range from severe irritation and corneal scarring to permanent blindness.
Skin	The liquid may cause severe burns on prolonged contact.
LD50 Skin	Not available
Ingestion	Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus.
LD50 Oral	Not available
Inhalation	Exposure to vapour concentrations above the occupational exposure limits will produce irritation of the eyes, nose, throat and respiratory tract. High concentrations of vapour will effect the central nervous system causing spasms. In fatal cases severe damage to the lungs occurs along with secondary cardiovascular effects.
LD50 Inhalation	Not available
TCLo	Not available
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	May be a mutagen but only by excessively high, probably fatal, exposure.
Reproductive Effects	No information is available.
Other Information	The irritant effect provides warning that control of exposure is needed. 15ppm is the threshold for irritation with severe irritation occurring above 22ppm.

# Section 12. Ecological

12.1	Toxicity	Solutions or high vapour concentrations will cause damage to vegetation. If introduced into rivers lakes etc, pH of water is important. If >7.5-8 will form free ammonia which is toxic to aquatic life. Highly mobile and readily diluted in water courses. Low levels are readily bio-degraded in the environment. Higher levels are toxic to marine and plant life.
	LC50 Algal	Not available
	LC50 Crustacea	Not available
	LC50 Fish	Not available
12.2	Persistence and degradability	No data available.
12.3	Bioaccumulative potential	No data available.
12.4	Mobility in soil	No data available.
12.5	Results of PBT & vPvB assessment	Assessment not required.
12.6	Other adverse effects	None known at present.

# Section 13. Disposal Considerations

#### 13.1 Waste treatment methods

Disposal Methods Dispose of in a licensed Contaminated Packaging Clean out with a weak h

Dispose of in a licensed incinerator. Never dispose of into water courses or sewerage systems.

g Clean out with a weak hydrochloric acid solution then wash out thoroughly with water. Use a licensed waste disposer.

# Section 14. Transport Information

14.1	UN Number	2672
14.2	Proper Shipping Name	Ammonia solution
14.3	Transport classes UN classification Subsidiary hazard(s) Transport category ADR Hazard ID Tunnel Restriction Code	8 None 3 80 E
14.4	Packing Group	III
14.5	<b>Environment hazards</b>	See section 12.
14.6	Special precautions for user	No special precautions required.
147	Transport in bulk	Not transported in bulk.

# 15.1 Safety, health and environment regulations specific for subtance/mixture.

Danger

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification	Skin corrosion/irritation, category 1B; Spec target organ tox - single, category 3; Hazard to aquatic environment,
	category 1

Signal word

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Hazard Pictograms



Hazard Statements
H314, H400, H335
Causes severe skin burns and eye damage. Very toxic to aquatic life. May cause respiratory irritation.
Precautionary Statements
P260, P280, P303+P361+P353, P304+P340, P305+P351+P338, P273
Do not breathe fume/vapours. Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair):
Pamoua/Take off immediately all contaminated clothing. Pince skin with water/chower. IE INHALED: Pamova

Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. Avoid release to the environment.

### 15.2 Chemical safety assessment

Assessment not required.

# Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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