

SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Classification according to Regulation (EC) No. 1272/2008 (CLP) Version 1.0 Issue Date 17th May 2022

1.	IDENTIFICATION OF TH	E SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING			
1.1	Product identifiers				
	Product name : Product number : Brand : REACH no. :	Lyophilised Papain 280560-TDK-1 AMSBIO / AMS Biotechnology (Europe) Ltd. A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.			
	CAS no. :	9001-73-4			
1.2	Relevant identified uses	of the substance or mixture and uses advised against			
1.2.1	Identified use :	For research use only For use with Tissue Digestion Kit (280560-TDK).			
1.3	Details of the supplier o	Details of the supplier of the safety data sheet			
	Company	: AMSBIO / AMS Biotechnology (Europe) Ltd. 184 Park Drive, Milton Park Abingdon OX14 4SE, UK			
	Telephone Email	: +44 1235 828 200 : info@amsbio.com			
1.4	Emergency telephone number				
	Emergency phone no.	: +44 1235 828 200 (MON – FRI, 0900 – 1700)			
2.	HAZARDS IDENTIFICATION				
2.1	Classification of the sub	ostance or mixture			
	Classification according to Regulation (EC) No 1272/2008 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Respiratory sensitisation (Category 1), H334 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335				
	For the full text of the H-Statements mentioned in this Section, see Section 16.				
2.2	Label Elements				
	Pictogram				
	Signal Word	Danger			
	Hazard Statement(s) H315 H319 H334 H335	Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.			
	Precautionary statement(s P261 P264 P271 P280 P284 P302 + P352	s) Avoid breathing dust Wash hands thoroughly after handling Use in a well-ventilated area Wear protective gloves/protective clothing/eye protection/face protection [In case of inadequate ventilation] wear respiratory protection. IF ON SKIN: Wash with plenty of soap and water			
		AMSBIO www.amsbio.com info@amsbio.com			

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North America 1035 Cambridge Street, Cambridge, MA 02141. T: +1 (617) 945-5033 or T: +1 (800) 987-0985 F: +1 (617) 945-8218 Europe Berenkoog 41, 1822 BH Alkmaar, Netherlands T: +31 (0)728080244 F: +31 (0)728080142 Page 1 of 6 Switzerland Via Lisano 3, (CP.683) CH-6900 T: +41 (0) 91 604 55 22 F: +41 (0) 91 605 17 85 Germany Bockenheimer Landstr. 17/19 60325 Frankfurt/Main T: +49 (0) 69 779099 F: +49 (0) 69 13376880



P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305 + P352 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell
FJIZ	
P332 + P313	If skin irritation occurs: Get medical advice/attention
P337 + P313	If eye irritation persists: Get medical advice/attention
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to an approved waste disposal company in accordance with local/regional/national regulation

Supplemental statement(s) None.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component	Classification	Concentration
Papain		
CAS No. 9001-73-4	Skin Irrit. 2; Eye Irrit. 2; Resp.	≤100%
	Sens. 1; STOT SE 3; H315,	
	H319, H334, H335.	

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

In the event of any adverse symptoms while using this product, consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

In case of skin contact

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call 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

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, light-headedness, chest pain, muscle pain or flushing.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

Treat symptomatically

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water, foam, dry chemical or carbon dioxide (CO2).

5.2 Special hazards arising from the substance or mixture

Non-combustible. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

5.3 Advice for firefighters

Standard procedure for chemical fires.



6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. See section 8 for more information

6.2 Environmental precautions

Should not be released into the environment.

6.3 Methods and materials for containment and cleaning up Collect with an absorbent towel moistened with water. Avoid forming dust. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See section 8 for more information

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Avoid dust formation. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Recommended storage temperature see product label.

7.3 Specific end uses

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering Measures

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye/Face protection

Safety glasses. 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 to avoid skin contact with this product. Dispose of any contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Wear suitable protective clothing.

Respiratory protection

Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended half mask:- Particle filtering: EN149:2001 When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls

No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties



	a) Appearance	Solid powder, Off white to Beige
	b) Odour	No data available
	c) Odour Threshold	No data available
	d) pH	No data available
	e) Melting point/freezing point	No data available
	f) Initial boiling point and boiling range	No data available
	g) Flash point	No data available
	h) Evaporation rate	No data available
	i) Flammability	No data available
	j) Upper/lower flammability or explosive limits	No data available
	k) Vapour pressure	No data available
	I) Vapour density	No data available
	m) Relative density	No data available
	n) Water solubility	No data available
	o) Partition coefficient: n-octanol/water	No data available
	p) Auto-ignition temperature	No data available
	q) Decomposition temperature	No data available
	r) Viscosity	No data available
	s) Explosive properties	No data available
	t) Oxidizing properties	No data available
9.2	Other safety information No data available.	
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 Avoid dust formation. Excess heat.	
10.5	Incompatible materials No data available	
10.6	Hazardous decomposition products Thermal decomposition can lead to release of ir	ritating gases and vapours.
11.	TOXICOLOGICAL INFORMATION	
11.1	Information on toxicological effects	
	Acute toxicity Not classified	
	Skin corrosion/irritation	
	Category 2	
	Serious eye damage/eye irritation Category 2	
	Respiratory or skin sensitization Respiratory Category 1	

Category 1 May cause sensitisation by inhalation



Germ cell mutagenicity

No data available

Carcinogenicity No data available

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.

Reproductive toxicity No data available

Specific target organ toxicity - single exposure Category 3

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity No data 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 and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

None

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from Residues/Unused Products

Waste is classified as hazardous. Dispose of in accordance with local regulations

Contaminated Packaging

Dispose of this container to hazardous or special waste collection point.

Other Information

Do not empty into drains.

14. TRANSPORT INFORMATION

14.1	UN number ADR/RID: N/A	IMDG: N/A	IATA: N/A
14.2	UN proper shippin ADR/RID: Not dang IMDG: Not dangerou IATA: Not dangerou	jerous goods ous goods	
14.3	Transport hazard (ADR/RID: N/A	class(es) IMDG: N/A	IATA: N/A
14.4	Packaging group ADR/RID: N/A	IMDG: N/A	IATA: N/A
14.5	Environmental haz ADR/RID: no	zards IMDG Marine pollut	ant: no IATA: no



14.6 Special precautions for user No data available

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335 May cause respiratory irritation

Revision history:	New Document
Indication of changes:	N/A
Key literature references and sources for data:	N/A

Further information

This document was developed from information obtained from reputable sources but does not purport to be all-inclusive. The data contained herein, which is based on our present knowledge and is intended for information purposes only, shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Regulatory requirements are subject to change and vary from one location to another; thus, it is the buyer's responsibility to ensure that its activities comply with national, regional and local laws and regulations. Fleet Bioprocessing Ltd makes no warranty, expressed or implied, regarding the accuracy or completeness of these data or the results to be obtained from the use thereof. Since the use of this information and the conditions of use of the product are not within the control of Fleet Bioprocessing Ltd, it is the user's obligation to determine the suitability of the information for the intended application and use appropriate safety procedures. Fleet Bioprocessing Ltd will not be held responsible for any damage from handling or from contact with the above products.



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	. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING			
1.1	Product identifiers			
	Product name : Product number : Brand : Index no. : REACH no. :	10X Assay Buffer 280560-TDK-2 AMSBIO / AMS Biotechnology (Europe) Ltd. n/a A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.		
	CAS no. :	n/a		
1.2	Relevant identified uses of the substance or mixture and uses advised against			
1.2.1	Identified use :	For research use only For use with Tissue Digestion Kit (280560-TDK).		
1.3 Details of the supplier of the safety data sheet		the safety data sheet		
	Company	: AMSBIO / AMS Biotechnology (Europe) Ltd. 184 Park Drive, Milton Park Abingdon OX14 4SE, UK		
	Telephone Email	+44 1235 828 200 info@amsbio.com		
1.4	Emergency telephone nu	Imber		
	Emergency phone no.	: +44 1235 828 200 (MON – FRI, 0900 – 1700)		
2.	HAZARDS IDENTIFICATION			
2.1	Classification of the substance or mixture			
	Classification according to Regulation (EC) No 1272/2008 Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.			
2.2	Label Elements Pictogram	None		
	Signal Word	None		
	Hazard Statement(s)	None		
	Precautionary statement(s) None		
	Precautionary statement(s Supplemental statement(s			
2.3	Supplemental statement(s Other hazards This substance/mixture co			
2.3 <u>3</u> .	Supplemental statement(s Other hazards This substance/mixture co persistent and very bioacc) None. ntains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very		
	Supplemental statement(s Other hazards This substance/mixture co persistent and very bioacc COMPOSITION/INFORM) None. ntains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very umulative (vPvB) at levels of 0.1% or higher.		
	Supplemental statement(s Other hazards This substance/mixture co persistent and very bioacc COMPOSITION/INFORM) None. ntains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very umulative (vPvB) at levels of 0.1% or higher.		

General advice

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In the event of any adverse symptoms while using this product, consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

In case of skin contact

Remove contaminated clothing. Rinse skin with soap and plenty of water.

In case of eye contact

Rinse out with plenty of water. Remove contact lenses. Continuing rinsing.

If swallowed

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

- 4.2 Most important symptoms and effects, both acute and delayed Not applicable
- 4.3 Indication of any immediate medical attention and special treatment needed None

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water, foam, dry chemical or carbon dioxide (CO2).

5.2 Special hazards arising from the substance or mixture Not known.

5.3 Advice for firefighters

Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation. Wear recommended Personal Protective Equipment See section 8 for more information

6.2 Environmental precautions No special environmental precautions required

- 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material.
- 6.4 Reference to other sections See section 8 for more information

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling For precautions see section 2.2
- 7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed. Recommended storage temperature see product label.
- 7.3 Specific end uses Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters Contains no substances with occupational exposure limit values.

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

8.2 Exposure controls



Personal protective equipment

Eye/Face protection

Safety glasses. 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 to avoid skin contact with this product. Dispose of any contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Wear suitable protective clothing.

Respiratory protection

Respiratory protection not required.

Environmental exposure controls

No special environmental precautions required

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Colourless liquid
,	No data available
b) Odour	NO Gala avaliable
c) Odour Threshold	No data available
d) pH	~6.8
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
I) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information No data available.

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 No data available. In the event of fire see Section 5.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity No data available

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.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

Additional Information No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

- No data 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 and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects None

13. DISPOSAL CONSIDERATIONS

13.1 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 according to 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.

14. TRANSPORT INFORMATION UN number 14.1 ADR/RID: N/A IMDG: N/A IATA: N/A 14.2 UN proper shipping name ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods 14.3 Transport hazard class(es) ADR/RID: N/A IMDG: N/A IATA: N/A Packaging group 14.4 IMDG: N/A ADR/RID: N/A IATA: N/A 14.5 **Environmental hazards** IMDG Marine pollutant: no ADR/RID: no IATA: no 14.6 Special precautions for user No data available

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION	
Revision history:	New Document
Indication of changes:	N/A
Key literature references and sources for data:	N/A

Further information

This document was developed from information obtained from reputable sources but does not purport to be all-inclusive. The data contained herein, which is based on our present knowledge and is intended for information purposes only, shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Regulatory requirements are subject to change and vary from one location to another; thus, it is the buyer's responsibility to ensure that its activities comply with national, regional and local laws and regulations. Fleet Bioprocessing Ltd makes no warranty, expressed or implied, regarding the accuracy or completeness of these data or the results to be obtained from the use thereof. Since the use of this information and the conditions of use of the product are not within the control of Fleet Bioprocessing Ltd, it is the user's obligation to determine the suitability of the information for the intended application and use appropriate safety procedures. Fleet Bioprocessing Ltd will not be held responsible for any damage from handling or from contact with the above products.



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1.	IDENTIFICATION	OF THE S	SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1	Product identifiers			
	Product name		1M Tris-HCl pH 8.	
	Product number	•	280560-TDK-3	
	Brand	:	AMSBIO / AMS Biotechnology (Europe) Ltd.	
	Index no.	•	n/a	
	REACH no.	:	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration, or the registration	
	CAS no.	:	is envisaged for a later registration deadline. n/a	
1.2	Relevant identifie	d uses of	f the substance or mixture and uses advised against	
1.2.1	Identified use	:	For research use only For use with Tissue Digestion Kit (280560-TDK).	
1.3	Details of the sup	plier of th	he safety data sheet	
	Company		: AMSBIO / AMS Biotechnology (Europe) Ltd. 184 Park Drive, Milton Park Abingdon OX14 4SE, UK	
	Telephone Email		+44 1235 828 200 info@amsbio.com	
.4	Emergency teleph	hone num	nber	
	Emergency phone	no.	: +44 1235 828 200 (MON – FRI, 0900 – 1700)	
2.	HAZARDS IDENTIFICATION			
2.1	Classification of the substance or mixture			
	Classification according to Regulation (EC) No 1272/2008 Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.			
2.2	Label Elements Pictogram		None	
	Signal Word		None	
	Hazard Statement((s)	None	
	Precautionary state	ement(s)	None	
	Supplemental state	ement(s)	None.	
2.3	Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.			
	COMPOSITION/IN	IFORMAT	TION ON INGREDIENTS	
3.	The sum does to set at the	ins no sub	ostances which at their given concentration are considered to be hazardous to health.	
3.	i ne product contai			
	FIRST AID MEASU	URES		
4.	·		asures	
3. 4. 4.1	FIRST AID MEAS		asures	

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In the event of any adverse symptoms while using this product, consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

In case of skin contact

Remove contaminated clothing. Rinse skin with soap and plenty of water.

In case of eye contact

Rinse out with plenty of water. Remove contact lenses. Continuing rinsing.

If swallowed

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

- 4.2 Most important symptoms and effects, both acute and delayed Not applicable
- 4.3 Indication of any immediate medical attention and special treatment needed None

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water, foam, dry chemical or carbon dioxide (CO2).

5.2 Special hazards arising from the substance or mixture Not known.

5.3 Advice for firefighters

Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation. Wear recommended Personal Protective Equipment See section 8 for more information

6.2 Environmental precautions No special environmental precautions required

- 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material.
- 6.4 Reference to other sections See section 8 for more information

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling For precautions see section 2.2
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters Contains no substances with occupational exposure limit values.

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

8.2 Exposure controls



Personal protective equipment

Eye/Face protection

Safety glasses. 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 to avoid skin contact with this product. Dispose of any contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Wear suitable protective clothing.

Respiratory protection

Respiratory protection not required.

Environmental exposure controls

No special environmental precautions required

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Colourless liquid
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	~8
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
I) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information No data available.

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** No data available. In the event of fire see Section 5.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity No data available

IADC: No component of this product present at lovels greater than or as

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.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

Additional Information No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

- No data 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 and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects None

13. DISPOSAL CONSIDERATIONS

13.1 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 according to 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.

14. TRANSPORT INFORMATION UN number 14.1 ADR/RID: N/A IMDG: N/A IATA: N/A 14.2 UN proper shipping name ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods 14.3 Transport hazard class(es) ADR/RID: N/A IMDG: N/A IATA: N/A Packaging group 14.4 IMDG: N/A ADR/RID: N/A IATA: N/A 14.5 **Environmental hazards** IMDG Marine pollutant: no ADR/RID: no IATA: no 14.6 Special precautions for user No data available

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION	
Revision history:	New Document
Indication of changes:	N/A
Key literature references and sources for data:	N/A

Further information

This document was developed from information obtained from reputable sources but does not purport to be all-inclusive. The data contained herein, which is based on our present knowledge and is intended for information purposes only, shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Regulatory requirements are subject to change and vary from one location to another; thus, it is the buyer's responsibility to ensure that its activities comply with national, regional and local laws and regulations. Fleet Bioprocessing Ltd makes no warranty, expressed or implied, regarding the accuracy or completeness of these data or the results to be obtained from the use thereof. Since the use of this information and the conditions of use of the product are not within the control of Fleet Bioprocessing Ltd, it is the user's obligation to determine the suitability of the information for the intended application and use appropriate safety procedures. Fleet Bioprocessing Ltd will not be held responsible for any damage from handling or from contact with the above products.



SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Classification according to Regulation (EC) No. 1272/2008 (CLP) Version 1.0 Issue Date 17th May 2022

1.	. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING				
1.1	Product identifiers				
	Product name	1M Acetic acid.			
	Product number	280560-TDK-4			
	Brand	AMSBIO / AMS Biotechnology (Europe) Ltd.			
	Index no.	n/a			
	REACH no.	A registration number is not available for this substance as the subst exempted from registration, the annual tonnage does not require a reg is envisaged for a later registration deadline.			
	CAS no.	64-19-7			
1.2	Relevant identified uses of the substance or mixture and uses advised against				
1.2.1	Identified use	For research use only For use with Tissue Digestion Kit (280560-TDK).			
1.3	Details of the supplier of the safety data sheet				
	Company	: AMSBIO / AMS Biotechnology (Europe) Ltd. 184 Park Drive, Milton Park Abingdon OX14 4SE, UK			
	Telephone Email	: +44 1235 828 200 : info@amsbio.com			
1.4	Emergency telephone number				
	Emergency phone	: +44 1235 828 200 (MON – FRI, 0900 – 1700)			
2.	HAZARDS IDENTIFICATION				
2.1	Classification of the substance or mixture				
	Classification according to Regulation (EC) No 1272/2008 Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.				
2.2	Label Elements Pictogram	None			
	Signal Word	None			
	Hazard Statement(None			
	Precautionary state	nt(s) None			
	Supplemental state	nt(s) None.			
2.3	Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.				
3.	COMPOSITION/INFORMATION ON INGREDIENTS				
	The product contains no substances which at their given concentration are considered to be hazardous to health.				
4.	FIRST AID MEASU	FIRST AID MEASURES			
	Description of first aid measures				
4.1	•				
4.1	General advice				

AMSBIO| www.amsbio.com | info@amsbio.com

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North America 1035 Cambridge Street, Cambridge, MA 02141. T: +1 (617) 945-5033 or T: +1 (800) 987-0985 F: +1 (617) 945-8218

Europe Berenkoog 41, 1822 BH Alkmaar, Netherlands T: +31 (0)728080244 F: +31 (0)728080142 Page 1 of 5 Switzerland Via Lisano 3, (CP.683) CH-6900 T: +41 (0) 91 604 55 22 F: +41 (0) 91 605 17 85



Germany Bockenheimer Landstr. 17/19 60325 Frankfurt/Main T: +49 (0) 69 779099 F: +49 (0) 69 13376880



In the event of any adverse symptoms while using this product, consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

In case of skin contact

Remove contaminated clothing. Rinse skin with soap and plenty of water.

In case of eye contact

Rinse out with plenty of water. Remove contact lenses. Continuing rinsing.

If swallowed

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

- 4.2 Most important symptoms and effects, both acute and delayed Not applicable
- 4.3 Indication of any immediate medical attention and special treatment needed None

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water, foam, dry chemical or carbon dioxide (CO2).

5.2 Special hazards arising from the substance or mixture Not known.

5.3 Advice for firefighters

Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation. Wear recommended Personal Protective Equipment See section 8 for more information

6.2 Environmental precautions No special environmental precautions required

- 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material.
- 6.4 Reference to other sections See section 8 for more information

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling For precautions see section 2.2
- 7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed. Recommended storage temperature see product label.
- 7.3 Specific end uses Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters Contains no substances with occupational exposure limit values.

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

8.2 Exposure controls



Personal protective equipment

Eye/Face protection

Safety glasses. 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 to avoid skin contact with this product. Dispose of any contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Wear suitable protective clothing.

Respiratory protection

Respiratory protection not required.

Environmental exposure controls

No special environmental precautions required

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Colourless liquid
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability	No data available
j) Upper/lower flammability or explosive limits	No data available
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Further information

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