SAFETY DATA SHEET
KM0086 – BILE AESCULIN AZIDE AGAR

According to Regulation (EC) No 1907/2006

CREATION DATE: 04/10/2023
REVISION DATE: 04/10/2023
REVISION NUMBER: 1

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	Bile Aesculin Azide Agar
Product code	KM0086

1.2. Relevant identified uses of the substance or mixture and uses advised against

Description	Culture media. *In vitro* diagnostic use. For professional use only.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Company	E&O Laboratories Limited
Address	Burnhouse Bonnybridge Scotland FK4 2HH United Kingdom
Website	www.eolabs.com
Telephone	+ 44 (0) 1324 840404
Fax	+ 44 (0) 1324 841314
Email	enquiries@eolabs.com

1.4. Emergency telephone number

Telephone (24hr)	999 (Emergency - UK), 112 (Emergency - EU member states) 111 (NHS24 Scotland and NHS Direct England & Wales)

2. HAZARDS IDENTIFICATION

2.1. Hazards identification

Main hazards	Acute Tox.4:H302

2.2 Label elements



Hazard pictograms		
Signal word	Warning	
Hazard statement	Acute Tox.4:H302	Harmful if swallowed.
	Aquatic Chronic 3:H412	Harmful to aquatic life with long lasting effects.
Precautionary statement prevention	P264	Wash contaminated skin thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	P273	Avoid release to the environment.
Precautionary statement response	P301+P312	IF SWALLOWED: Call a POISON

	CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.

2.3 Other hazards

This substance/mixture contains no ingredients considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very Bioaccumulative (VPvB) at levels 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical name	CAS No. EC No.	Concentration (%w/w)	Classification
Sodium ethanesulfonate*	1180-95-6 214-652-0	5-5.5%	Skin Irrit.2:H315 Eye Irrit.2:H319 STOT SE 3:H336
Sodium cholate*	361-09-1 206-643-5	1-1.6%	Skin Irrit.2:H315 Eye Irrit.2:H319
Sodium acetate*	16409-34-0 240-455-4	1-1.6%	Skin Irrit.2:H315 Eye Irrit.2:H319 STOT SE 3:H335
Sodium azide	26628-22-8 247-852-1	0.1-0.5%	Acute Tox.2:H300 Acute Tox.2:H310 Acute Tox.2:H330 STOT RE 2:H373 Aquatic Acute 1:H400 Aquatic Chronic 1:H410

***These are components of ox bile**

Skin Irrit.2:H315	Causes skin irritation.
Eye Irrit.2:H319	Causes serious eye irritation.
Acute Tox.2:H300	Fatal if swallowed.
Acute Tox.2:H310	Fatal in contact with skin.
Acute Tox.2:H330	Fatal if inhaled.
STOT SE 3:H335	May cause respiratory irritation.
STOT SE 3:H336	May cause drowsiness or dizziness.
STOT RE 2:H373	May cause damage to organs through prolonged or repeated exposure.
Aquatic Acute 1:H400	Very toxic to aquatic life.
Aquatic Chronic 1:H410	Very toxic to aquatic life with long lasting effects.

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice	Seek medical advice.
Inhalation	If breathed in, move person into fresh air.
Eye contact	Rinse immediately with plenty of water.
Skin contact	Wash the contaminated area with soap and water.
Ingestion	Rinse mouth with water.

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

Inhalation	May be an irritant to respiratory system.
Eye contact	May be an irritant to eyes.
Skin contact	May be an irritant to skin.
Ingestion	Ingestion may cause nausea and vomiting.
Additional	See sections 2.2 and 11.

4.3. Indication of any immediate medical attention and special treatment needed — Treat symptomatically. Symptoms may be delayed.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media — Use extinguishing media appropriate to the surrounding fire conditions. Carbon dioxide, dry chemical, water spray or foam.

Unsuitable extinguishing media — None known.

5.2. Special hazards arising from the substance or mixture — Thermal decomposition may liberate irritating gases and vapours, such as carbon oxides, sodium oxides and nitrous gases (NOx).

5.3. Advice for firefighters — Wear self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures — Wear disposable gloves and protective clothing.

6.2 Environmental precautions — Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up — Pick up and transfer into suitable containers for recovery/disposal. Sweep up. Flush area with plenty water.

6.4 Reference to other sections — Not available.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling — Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities — Store as directed.

7.3. Specific end use(s) — For laboratory use only.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Component	CAS No.	Value form of exposure	Control parameters	Basis
Sodium azide	26628-22-8	TWA	0.1mg/m^3	UK. EH40 WEL – Workplace Exposure Limits
		STEL	0.3mg/m^3	UK. EH40 WEL – Workplace Exposure Limits
		Remarks	Can be absorbed through the skin.	

8.2. Exposure controls

Appropriate engineering controls — Ensure there is adequate ventilation when used.

Individual protection measures — Wear disposable gloves, eye/face protection and protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state — Fine powder

Colour	Straw
Odour	No data available
Odour threshold	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flammability	No data available
Upper explosion/flammability limit	Not applicable
Lower explosion/flammability limit	Not applicable
Flash point	Not applicable
Autoignition temperature	Not applicable
Decomposition temperature	Not applicable
pH	7.1 ± 0.2
Kinematic viscosity	Not applicable
Solubility	No data available
Partition coefficient n-octanol/water	Not applicable
Vapour pressure	No data available
Relative density	No data available
Relative vapour density	Not applicable
Particle characteristics	≤0.2mm

9.2. Other information

Explosive properties	Not applicable
Oxidising properties	Not applicable
Corrosive properties	Not applicable
Evaporation rate	Not applicable
Conductivity	Not applicable

10. STABILITY AND REACTIVITY

10.1. Reactivity Contact with acids liberates very toxic gas.

10.2. Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions Reactive with: oxidising agents, acids, bromine, dimethylsulfate, heavy metals, halogenated hydrocarbons and nitrates.

10.4. Conditions to avoid Avoid exposure to direct sunlight, excessive heat and incompatible products as these may affect the stability of the media.

10.5 Incompatible materials Strong oxidising agents, acids, bromine, dimethylsulfate, heavy metals, halogenated hydrocarbons and nitrates.

10.6 Hazardous decomposition products See section 5.2.

11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Category 4. Harmful if swallowed.

Component	CAS No.	Route	Species	LD50 results
Sodium cholate	361-09-1	Oral	Mouse	2400mg/kg
Sodium azide	26628-22-8	Oral	Not specified	5mg/kg
		Dermal	Not specified	50mg/kg
		Inhalation	Not specified	0.05mg/kg

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.

STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties	No known/suspected endocrine disruptors.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Component	CAS No.	Species	Measurement	Results
Sodium azide	26628-22-8	*Oncorhynchus mykiss* (Rainbow trout)	LC50	2.75mg/l 96h
		Pseudokirchneriella subcapitata	EC50	0.35mg/l 96h

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 No data available.

12.6 Endocrine disrupting properties No known/suspected endocrine disruptors.

12.7 Other adverse effects No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Dispose of in accordance with local and national authority requirements.

14. TRANSPORT INFORMATION

ARD/RID/IMO/IMDG/IATA/ICAO This product is not classified as dangerous for carriage.

14.1 UN number or ID number Not applicable.

14.2 UN proper shipping name Not applicable.

14.3 Transport hazard class(es) Not applicable.

14.4 Packing group Not applicable.

14.5 Environmental hazards Not applicable.

14.6 Special precautions for user Not applicable.

14.7 Maritime transport in bulk according to IMO instruments Not applicable.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU regulations
Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

15.2 Chemical safety assessment None carried out.

16. OTHER INFORMATION

SDS No.	KM0086
Revision date	04/10/2023
Revision number	1
Revision changes	New document
Previous revisions	Not applicable

Legend

ARD	European Agreement Concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
EC	European Community
EC50	Half maximal Effective Concentration
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
IMO	International Maritime Organization
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
UN	United Nations
WEL	Workplace Exposure Limit

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