

### SAFETY DATA SHEET

# Aniline, 10X in Acetate Buffer

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

#### 1.1. Product identifier

Trade name

Aniline, 10X in Acetate Buffer

Other names / Synonyms

91057: Aniline, 10X in Acetate Buffer, 10 mL

Product no.

91057

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

#### Relevant identified uses of the substance or mixture

Use as laboratory reagent. For research use only. Not for food, drug, household, or cosmetic use. Restricted to professional users.

#### Use descriptors (REACH)

Sectors of use	Description
SU 24	Scientific research and development
Product category	Description
PC 21	Laboratory Chemicals
Process category	Description
PROC 15	Use as laboratory reagent

### Uses advised against

Use as laboratory reagent. For research use only. Not for food, drug, household, or cosmetic use.

#### 1.3. Details of the supplier of the safety data sheet

### Company and address

### Biotium, Inc.

46117 Landing Parkway

CA 94538 Fremont

USA

T: +1 510-265-1027

Fax: +1 510-265-1352

http://www.biotium.com

# E-mail

techsupport@biotium.com

#### Revision

01/04/2025

**SDS Version** 

1.0

# 1.4. Emergency telephone number

Anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day)

See also section 4 "First aid measures".

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

STOT RE 2; H373, May cause damage to organs through prolonged or repeated exposure. Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

Hazard pictogram(s)





### Signal word Warning

# Hazard statement(s)

May cause damage to organs through prolonged or repeated exposure. (H373) Harmful to aquatic life with long lasting effects. (H412)

#### Precautionary statement(s)

### General

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#### Prevention

Do not breathe vapour/mist. (P260) Avoid release to the environment. (P273)

#### Response

Get medical advice/attention if you feel unwell. (P314)

#### Storage

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#### Disposal

Dispose of contents/container in accordance with local regulation (P501)

#### Hazardous substances

aniline

#### Additional labelling

EUH208, Contains aniline. May produce an allergic reaction.

#### 2.3. Other hazards

#### Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

# SECTION 3: Composition/information on ingredients

# 3.1. Substances

Not applicable. This product is a mixture.

# 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
aniline	CAS No.: 62-53-3	<5%	Acute Tox. 3, H301	[1]
	EC No.: 200-539-3		Acute Tox. 3, H311	
	REACH: 01-2119451454-41-XXXX		Skin Sens. 1B, H317	
	Index No.: 612-008-00-7		Eye Dam. 1, H318	
			Acute Tox. 3, H331	
			Muta. 2, H341	
			Carc. 2, H351	
			STOT RE 1, H372 (SCL: 1.00 %)	
			STOT RE 2, H373 (SCL: 0.20 %)	
			Aquatic Acute 1, H400 (M=1)	
			Aquatic Chronic 1, H410 (M=1)	
acetic acid %	CAS No.: 64-19-7	<5%	Flam. Liq. 3, H226	[1]
	EC No.: 200-580-7		Skin Corr. 1A, H314 (SCL: 90.00 %)	
	REACH: 01-2119475328-30-XXXX		Skin Corr. 1B, H314 (SCL: 25.00 %)	
	Index No.: 607-002-00-6		Skin Irrit. 2, H315 (SCL: 10.00 %)	
			Eye Irrit. 2, H319 (SCL: 10.00 %)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.



#### Other information

[1] European occupational exposure limit.

No ingredients present at concentrations classified as harmful to health or the environment.

#### SECTION 4: First aid measures

# 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet. The doctor can contact the Anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day)

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### Eye contact

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

#### Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

#### **Burns**

Not applicable.

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

Headache, Methaemoglobinaemia (aniline)

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.

Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

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

Call a POISON CENTER/doctor if you feel unwell.

#### Information to medics

Bring this safety data sheet or the label from this product.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

# 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

# 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day) in order to obtain further advice.

# SECTION 6: Accidental release measures

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

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

#### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local



#### environmental authorities.

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

#### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

### SECTION 7: Handling and storage

# 7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Avoid direct contact with the product.

Avoid contact during pregnancy and while nursing.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Recommended storage material

Always store in containers of the same material as the original container.

#### Storage conditions

Refrigerator 2°C to 8°C.

Protect from light.

Keep container tightly closed in a dry and well-ventilated place.

# Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

aniline

Short term exposure limit (15 minutes) (mg/m³): 19,35

Short term exposure limit (15 minutes) (ppm): 5

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 7,74

Long term exposure limit (8 hours) (ppm): 2

Annotations:

D = The absorption of the agent through the skin, the mucous membranes or the eyes is an important part of the total exposure. Absorption is achieved both by direct contact and by the presence of the agent in the air.

acetic acid ... %

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 38

Short term exposure limit (15 minutes) (ppm): 15

Long term exposure limit (8 hours) (mg/m³): 25

Long term exposure limit (8 hours) (ppm): 10

List of the limit values for exposure to chemical agents (KB van May 2021).

#### DNEL

acetic acid ... %

Duration:	Route of exposure:	DNEL:
Long term – Local effects - Workers	Inhalation	25 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	25 mg/m <sup>3</sup>
aniline		
Duration:	Route of exposure:	DNEL:



Long term – Systemic effects - Workers	Dermal	2 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	4 mg/kg bw/day
Long term – Systemic effects - Workers	Inhalation	7.7 mg/m³
Short term – Systemic effects - Workers	Inhalation	15.4 mg/m³

#### **PNEC**

acetic acid ... %

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		3.058 mg/L
Freshwater sediment		11.36 mg/kg
Intermittent release (freshwater)		30.58 mg/L
Marine water		305.8 μg/L
Marine water sediment		1.136 mg/kg
Sewage treatment plant		85 mg/L
Soil		470 μg/kg

#### aniline

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Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		1.2 μg/L
Freshwater sediment		153 μg/kg
Marine water		120 ng/L
Marine water sediment		15.3 μg/kg
Predators		2.3 g/kg
Sewage treatment plant		2 mg/L
Soil		33 μg/kg

#### 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

#### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

### **Exposure scenarios**

There are no exposure scenarios implemented for this product.

# **Exposure limits**

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

### Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

# Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

### Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

# Individual protection measures, such as personal protective equipment

#### Generally

Use only CE marked protective equipment.

# Respiratory Equipment

Туре	Class	Colour	Standards	
Not required; excase of aerosol formation.	cept in		N/A	

### Skin protection



### No specific requirements.

# Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.				
e protection				

# Eye

0 0.0000.0		
Туре	Standards	
Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).	EN166	

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Yellow

Odour / Odour threshold

Faint (Odour treshold: None ppm)

рΗ

Density (g/cm³)

No data available.

Kinematic viscosity

No data available.

Particle characteristics

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)

No data available.

Softening point/range (°C)

Does not apply to liquids.

Boiling point (°C)

No data available.

Vapour pressure

No data available.

Relative vapour density

No data available.

Decomposition temperature (°C)



No data available.

Data on fire and explosion hazards

Flash point (°C)

No data available.

Flammability (°C)

No data available.

Auto-ignition temperature (°C)

No data available.

Lower and upper explosion limit (% v/v)

No data available.

Solubility

Solubility in water

Soluble

n-octanol/water coefficient (LogKow)

No data available.

Solubility in fat (q/L)

No data available.

9.2. Other information

Other physical and chemical parameters

No data available.

Oxidizing properties

No data available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

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

# Acute toxicity

Based on available data, the classification criteria are not met.

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 sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

This product contains substances that may trigger an allergic reaction in already sensitized persons.

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

May cause damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### 11.2. Information on other hazards

#### Long term effects

None known.

#### Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

#### Other information

aniline has been classified by IARC as a group 2A carcinogen.

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

# 12.3. Bioaccumulative potential

Based on available data, the classification criteria are not met.

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

## 12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

#### 12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

Dispose of contents/container to an approved waste disposal plant.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

#### EWC code

Not applicable.

### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

### **SECTION 14: Transport information**

	14.1 14.2 UN / ID UN proper shipping name	14.3 Hazard class(es)	I4.5 Other Env** informatio n:
ADR		-	 -
IMDG		-	 _
IATA	-	-	 -

<sup>\*</sup> Packing group

Additional information

<sup>\*\*</sup> Environmental hazards



Not dangerous goods according to ADR, IATA and IMDG.

#### 14.6. Special precautions for user

Not applicable.

# 14.7. Maritime transport in bulk according to IMO instruments

No data available.

#### **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

### Demands for specific education

No specific requirements.

### SEVESO - Categories / dangerous substances

Not applicable.

#### REACH, Annex XVII

acetic acid ... % is subject to REACH restrictions (entry 40).

#### Additional information

Not applicable.

#### Sources

3 MAY 1999. - Royal decree on the protection of young people at work.

Labor Law of 24-01-1985, updated 31-12-2020.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

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 (CLP).

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).

#### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

## Full text of H-phrases as mentioned in section 3

H226, Flammable liquid and vapour.

H301, Toxic if swallowed.

H311, Toxic in contact with skin.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

H331, Toxic if inhaled.

H341, Suspected of causing genetic defects.

H351, Suspected of causing cancer.

H372, Causes damage to organs through prolonged or repeated exposure.

H373, May cause damage to organs through prolonged or repeated exposure.

H400, Very toxic to aquatic life.

H410, Very toxic to aquatic life with long lasting effects.

### The full text of identified uses as mentioned in section 1

SU 24 = Scientific research and development

PROC 15 = Use as laboratory reagent

PC 21 = Laboratory Chemicals

#### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service



CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EuPCS = European Product Categorisation System

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

GWP = Global warming potential

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

**UN = United Nations** 

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

# Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Biotium shall not be held liable for any damage resulting from handling or contact with the above product.

#### The safety data sheet is validated by

Julianne Davis

#### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: BE-en