# SAFETY DATA SHEET



Date Issued : 19/08/2021 MSDS No : Amplification Mix 1 Date Revised : 19/08/2021 Revision No : 01

## **1. PRODUCT AND COMPANY IDENTIFICATION**

## **1.1. Product identifier**

Product ReferenceBE00760Product NameAmplification Mix 1

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

Identified usesNo information available.Uses advised againstNo information available.

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

Supplier

Vitrolife Sweden AB **Web:** www.vitrolife.com Gustaf Werners gata 2, SE-421 32 Västra Frölunda, Sweden (visiting address). Box 9080, SE-400 92 Göteborg, Sweden (postal address). **Customer Service:** +46 31 721 8000

## 2. HAZARDS IDENTIFICATION

## 2.1. Classification of the substance or mixture

**Regulation (EC) No 1272/2008** This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

## 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP] Hazard statements This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP] EUH210 - Safety data sheet available on request

## 2.3. Other hazards

No information available

## **3. COMPOSITION / INFORMATION ON INGREDIENTS**

## 3.1. Substances

Not applicable

## <u>3.2 Mixtures</u>

Chemical Name	Weight%	REACH registration number	EC-No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long- term)
Glycerol 56-81-5	5-10	No data available	200-289-5	No data available	-	-	-

## Full text of H- and EUH-phrases: see section 16

#### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour – gas- ppm
Glycerol 56-81-5	12600	10000	2.75	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### **4. FIRST AID MEASURES**

## 4.1. Description of first aid measures

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water

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

Main symptoms No information available.

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

**Note to physician** Treat symptomatically.

### **5. FIRE FIGHTING MEASURES**

## 5.1. Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

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

Specific hazards arising from the chemical	No information available.

## 5.3. Advice for firefighters

Special protective equipment and<br/>precautions for fire-fightersFirefighters should wear self-contained breathing apparatus and full firefighting<br/>turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

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

Personal precautions For emergency responders	Ensure adequate ventilation. Use personal protection recommended in Section 8.		
6.2. Environmental precautions			
Environmental precautions	See section 12 for additional ecological information.		
6.3. Methods and material for containment and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		

## 6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

### 7. HANDLING AND STORAGE

## 7.1. Precautions for safe handling

Advice on safe handlingEnsure adequate ventilationGeneral hygiene considerationsHandle in accordance with good industrial hygiene and safety practice.

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

Storage conditions

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

## 7.3. Specific end use(s)

## **Identified uses**

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1. Control parameters

## **Exposure limits**

Chemical Name	European Un	ion Austria	Belgium	Bulg	aria	Croatia
Glycerol 56-81-5	-	-	TWA 10 mg/m <sup>3</sup>	-		TWA 10 mg/m <sup>3</sup>
Chemical Name	Cyprus	Czech Republic	Denmark	Esto	nia	Finland
Glycerol 56-81-5	-	TWA 10 mg/m <sup>3</sup> Ceiling 15 mg/m <sup>3</sup>	-	TWA 10	mg/m <sup>3</sup>	TWA 20 mg/m <sup>3</sup>
Chemical Name	France	Germany	Germany MAK	Gree	ece	Hungary
Glycerol 56-81-5	TWA 10 mg/r	m <sup>3</sup> TWA 200 mg/m <sup>3</sup>	AGW 200 mg/m <sup>3</sup>	TWA 10	mg/m <sup>3</sup>	-
Chemical Name	Ireland	Italy	Italy REL	Lat	via	Lithuania
Glycerol 56-81-5		200 mg/m <sup>3</sup> TWA AGW (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, inhalable fraction, exposure factor 2)				
Chemical Name	Luxembour	g Malta	Netherlands	Norv	way	Poland
Glycerol 56-81-5	-	-	-	-		TWA 10 mg/m <sup>3</sup>
Chemical Name	Portugal	Romania	Slovakia	Slove	enia	Spain
Glycerol TWA 10 mg/m <sup>3</sup> 56-81-5		m <sup>3</sup> -	TWA 11 mg/m <sup>3</sup>	STEL 400 mg/m <sup>3</sup> TWA 200 mg/m <sup>3</sup>		TWA 10 mg/m <sup>3</sup>
Chemical Name		Sweden	Switzerland		U	nited Kingdom
Glycerol 56-81-5		-	SS-C** TWA 50 mg, STEL 100 mg			TEL 30 mg/m <sup>3</sup> WA 10 mg/m <sup>3</sup>

#### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

## Derived No Effect Level (DNEL) N

No information available.

```
Predicted No Effect Concentration (PNEC)
```

## No information available.

## 8.2. Exposure controls

## Skin and body protection **Respiratory protection**

**Physical state** 

No special protective equipment required. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Handle in accordance with good industrial hygiene and safety practice.

General hygiene considerations **Environmental exposure controls**  No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

Liquid

Appearance	Clear, c	olourless	
Colour	No info	mation available	
Odour	Odourle	ess	
Odour threshold	No info	mation available	
Property		<u>Values</u>	<u>Remarks / Method</u>
Melting point / freezing		No data available	None known
Boiling point/boiling ra (°C)	nge	No data available	None known
Flammability (solid, ga	s)	No data available	None known
Flammability limit in ai	r		None known
Upper flammability li	imit:	No data available	
Lower flammability l	imit:	No data available	
Flash point		No data available	Open cup
Autoignition temperatu	re	200 °C	None known
Decomposition tempera	ature		None known
рН		No data available	None known
pH (as aqueous solutio	n)	No data available	No information available
Kinematic viscosity		No data available	None known
Dynamic viscosity		No data available	None known
Water solubility		No data available	None known
Solubility in other solve	ents	No data available	None known
Partition coefficient		No data available	None known
Vapor pressure		No data available	None known
Relative density		No data available	None known
Bulk density		No data available	
Liquid density		No data available	
Vapour density		No data available	None known
Particle characteristics			
Particle size		No information available	
Particle size distribut	tion	No information available	

## 9.2. Other information

9.2.1. Information with regard to physical hazard classes Not applicable

9.2.2. Other safety characteristics Not applicable

<b>10. STABILITY AND REACTIVITY</b>	
10.1. Reactivity	
Reactivity	No information available.
10.2. Chemical stability	
Stability	Stable under normal conditions.
<u>Explosion data</u> Sensitivity to Mechanical Impact Sensitivity to Static Discharge	None. None.

## 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal processing.			
10.4. Conditions to avoid				
Conditions to avoid	None known based in information supplied.			
10.5. Incompatible materials				
Incompatible materials	None known based in information supplied.			
10.6. Hazardous decomposition produc	<u>ts</u>			
Hazardous decomposition products	None known based in information supplied.			
11. TOXICOLOGY INFORMATION				
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information on likely routes of exposure				
Product Information				
Inhalation Spec	ific test data for the substance or mixture is not available.			
Eye contact Spec	ific test data for the substance or mixture is not available.			

Specific test data for the substance or mixture is not available.

Specific test data for the substance or mixture is not available.

## Symptoms related to the physical, chemical and toxicology characteristics

Symptoms

Skin contact

Ingestion

No information available.

## Numerical measures if toxicity

Acute toxicity

## The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	74,016.30 mg/kg
ATEmix (dermal)	59,969.70 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	22.7534 mg/l

## **Component information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerol	=12600 mg/kg (Rat)	>10 g/Kg (Rabiit)	>2.75 mg/L (Rat) 4 h

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - Single exposure	No information available.
STOT - Repeated exposure	No information available.
Aspiration hazard	No information available.

## 11.2. Information on other hazards

## 11.2.1. Endocrine disrupting properties **Endocrine disrupting properties** No information available. 11.2.2. Other Information Other adverse effects No information available.

## **12. ECOLOGICAL INFORMATION**

### 12.1. Toxicity

## Ecotoxicity

#### Unknown aquatic toxicity

Contains 12.99999 % of components with unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Glycerol	-	51 – 57: 96 h	-	-
		Oncorhynchus mykiss		
		mL/L LC50 static		

#### 12.2. Persistence and degradability

Persistence and degradability No information available.

### 12.3. Bioaccumulative potential

**Bioaccumulation** 

There is no data for this product.

## **Component information**

Chemical Name	Partition coefficient
Glycerol	-1.76

## 12.4. Mobility in soil

Mobility in soil

No information available.

## 12.5. Results of PBT and vPvB assessment

## PBT and vPvB assessment

Chemical Name	PBT and vPvB assessment	
Glycerol	The substance is not PBT / vPvB	

## 12.6. Endocrine disrupting properties

Endocrine disrupting properties	No information available.
---------------------------------	---------------------------

## 12.7. Other adverse effects

No information available

#### **13. DISPOSAL CONSIDERATIONS**

### 13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with the environmental legislation.
Contaminated packaging	Do not reuse empty containers.

## **14. TRANSPORT INFORMATION**

## **IATA**

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	No information available
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user special provisions	None
IMDG	

IMDG 14.1 UN number or ID number Not regulated 14.2 UN proper shipping name No information available

14.3 Transport hazard class(es)	Not regulated	
14.4 Packing group	Not regulated	
14.5 Environmental hazards	Not applicable	
14.6 Special precautions for user special provisions	Not regulated	
14.7 Maritime transport in bulk according to IMO instruments	No information available	
RID		
14.1 UN number or ID number	Not regulated	
14.2 UN proper shipping name	No information available	
14.3 Transport hazard class(es)	Not regulated	
14.4 Packing group	Not regulated	
14.5 Environmental hazards	Not applicable	
14.6 Special precautions for user special provisions	None	
ADR		
14.1 UN number or ID number	Not regulated	
14.2 UN proper shipping name	No information available	
14.3 Transport hazard class(es)	Not regulated	
14.4 Packing group	Not regulated	
14.5 Environmental hazards	Not applicable	
14.6 Special precautions for user special provisions	None	
15. REGULATORY INFORMATION		

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

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### **Persistent Organic Pollutants**

Not applicable

#### **Ozone-depleting substances (ODS) regulation (EC) 1005/2009** Not applicable

International Inventories

TSCA	-
DSL/NDSL	-
EINECS/ELINCS	-
ENCS	-
IECSC	-
KECL	-
PICCS	-
AICS	-

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
Australian Inventory of Chemical Substances

## 15.2. Chemical safety assessment

Chemical safety assessment No information available

## **16. OTHER INFORMATION**

Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	Time Weighted Average
STEL	Short Term Exposure Limit
Ceiling	Maximum limit value
*	Skin designation
**	Hazard designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity – dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT – repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

## Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

## This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

REASON FOR ISSUE: Official APPROVED BY: Senthil Natesan TITLE: Senior Manager, Product Applications PREPARED BY: Senthil Natesan Date Revised: 19/08/2021 INFORMATION CONTACT: Dmitry Nikiforov REVISION SUMMARY: Not applicable

ADDITIONAL SDS INFORMATION: The data in this Safety Data Sheet relates only to the specific material designated herein.

**MANUFACTURER DISCLAIMER:** The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**NOTICE TO PURCHASER:** this product is to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. This product may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval. Your use of this product is also subject to compliance with the licensing requirements described on the product's webpage. It is your responsibility to review, understand and adhere to any restrictions

imposed by these statements. All other marks are the property of their respective owners. Certain trademarks may not be registered in all jurisdictions.