

SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company/undertaking

Identification of the substance/preparation

Product code 11130051

Product name MEM AMINO ACIDS SOL, 50X

Company/Undertaking Identification

Life Technologies LIFE TECHNOLOGIES LIMITED

5791 Van Allen Way 3 FOUNTAIN DRIVE

PO Box 6482 INCHINNAN BUSINESS PARK

Carlsbad, CA 92008 PAISLEY, PA4 9RF

+1 760 603 7200 SCOTLAND 44-141 814-6100

24 hour Emergency Response: 866-536-0631

301-431-8585

Outside of the U.S. ++1-301-431-8585

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

2. Hazards identification

In accordance with local and national regulations,

The product is classified and labelled in accordance with Directive 1999/45/EC. REGULATION (EC) No 1272/2008 Classification according to EU Directives 67/548/EEC or 1999/45/EC.

GHS - Classification

Signal word Danger



Health hazard

Product code

11130051

nearth nazara	
Skin corrosion/irritation	Category 1 B
Serious eye damage/eye irritation	Category 1

Revision Date: 20-Jun-2013

Page 1/6

Physical hazards

not hazardous

Hazard statements

H314 - Causes severe skin burns and eye damage

Precautionary statements

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

P280 - Wear protective gloves/protective clothing/eye protection/face protection

European Union



EU Specific Hazard Statements

R-phrase(s)

R34 - Causes burns

R41 - Risk of serious damage to eyes

S-phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

S37/39 - Wear suitable gloves and eye/face protection.

Principle Routes of Exposure/

Potential Health effects

EyesCauses burns.SkinCauses burns.

InhalationInhaled corrosive substances can lead to a toxic oedema of the lungs.IngestionIngestion causes burns of the upper digestive and respiratory tracts.

Specific effects

Carcinogenic effectsNot applicableMutagenic effectsNot applicableReproductive toxicityNot applicableSensitisationNot applicable

Revision Date: 20-Jun-2013 **Product code** 11130051

3. Composition/information on ingredients

Chemical Name	CAS-No.	EINECS-No.	Weight percent
Amino Acids	N/A	-	1-5

We recommend handling all chemicals with caution.

4. FIRST AID MEASURES

Skin contact Wash off with plenty of water. Consult a physician.

Eye contactIngestion
Rinse thoroughly with plenty of water, also under the eyelids. Consult a physician.
Never give anything by mouth to an unconscious person. Consult a physician.

Rinse mouth. Do not induce vomiting.

Inhalation Move to fresh air. Consult a physician.

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Special protective equipment for firefighters Water spray. Carbon dioxide (CO2). Foam. Dry powder. Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Methods for cleaning up Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Soak up with inert absorbent material.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

See Section 12 for additional information.

7. HANDLING AND STORAGE

Handling S24/25 - Avoid contact with skin and eyes Avoid contact with skin, eyes and

clothing.

Storage Keep in properly labelled containers.

8. Exposure controls/personal protection

Exposure limits

We are not aware of any national exposure limit.

Chemical Name	EU OEL (TWA)	EU OEL (STEL)	EU Skin Notation
Amino Acids	None	None	None
N/A			

Chemical Name	Austria	Belgium (TWA)	Denmark (TWA)	Finland OEL (TWA)
Amino Acids	None	None	None	None
N/A				

Chemical Name	France OEL (VME)	Germany OEL (TWA)	Ireland (TWA)	Italy OEL (TWA)
•				

Revision Date: 20-Jun-2013 Product code 11130051 Page 3/6 Product name MEM AMINO ACIDS SOL, 50X

Amino Acids N/A	None	None	None	None
Chemical Name	Sweden - Occupational	Netherlands OEL (MAC)	Spain OEL (TWA)	United Kingdom
	Exposure Limits - TLVs (LLVs)			
Amino Acids N/A	none	None	None	None

Chemical Name	European Union	United Kingdom	France OEL (VME)	Germany OEL (TWA)
Amino Acids N/A	None	None	None	None

Chemical Name	Italy OEL (TWA)	Portugal	Netherlands OEL (MAC)	Finland OEL (TWA)
Amino Acids	None	None	None	None
N/A				

Chemical Name	Austria	Denmark	Poland	Switzerland
Amino Acids	None	None	None	None
N/A				

Chemical Name	Ireland	Norway	Spain OEL (TWA)
Amino Acids N/A	None	None	None

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Impervious gloves.

Eye protectionSafety glasses with side-shields.
Lightweight protective clothing.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure

controls

Product code

Prevent product from entering drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form liquid

Appearance
Odour
No information available
No information available
No information available
No information available

Boiling Point/Range°CNo data available°FNo data availableMelting point/range°CNo data available°FNo data availableFlash point°CNo data available°FNo data availableAutoignition temperature°CNo data available°FNo data available

Autoignition temperature °C No data available oxidising properties No information available

Water solubility soluble pH Range 0-2

11130051

Revision Date: 20-Jun-2013

10. STABILITY AND REACTIVITY

Stable. **Stability**

Materials to avoid No information available No information available Hazardous decomposition

products

polymerisation Hazardous polymerisation does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

No information available

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
Amino Acids	No data available	No data available	No data available

Principle Routes of Exposure/

Potential Health effects

Eyes Causes burns Skin Causes burns

Inhalation Inhaled corrosive substances can lead to a toxic oedema of the lungs. Ingestion Ingestion causes burns of the upper digestive and respiratory tracts.

Carcinogenic effects No information available **Mutagenic effects** No information available Reproductive toxicity No information available Sensitisation No information available

12. ECOLOGICAL INFORMATION

No information available. **Ecotoxicity effects Mobility** No information available. Biodegradation Inherently biodegradable. Does not bioaccumulate. Bioaccumulation

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

IATA

Revision Date:

Product code

Proper shipping name Corrosive liquid, acidic, organic, n.o.s. (amino acid salts)

Hazard class 8 **Subsidiary Class** None **Packing group** Ш **UN-No** 3265

11130051

20-Jun-2013

Page 5/6 Product name MEM AMINO ACIDS SOL, 50X

15. Regulatory information

International Inventories

Chemical Name	EINECS	ELINCS	ENCS	PICCS
Amino Acids	-	•	-	-

Chemical Name	AICS	KECL	DSL	NDSL
Amino Acids	=	=	=	-

16. OTHER INFORMATION

Reason for Revision (M)SDS sections updated

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unkown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE.

End of Safety Data Sheet

Revision Date: 20-Jun-2013 **Product code** 11130051