

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 8.8

Revision Date 20.02.2025

Print Date 04.05.2025

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

1.1 Product identifiers

Product name : Amino Acid Peptide Metabolite Library Of Standards Plate 2 (Water Soluble)

Product Number : AAPMLS02

Brand : Sigma

REACH No. :

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

Identified uses : Laboratory chemicals, Manufacture of substances

Uses advised against : For R&D use only. Not for pharmaceutical, household or other uses.

1.3

CHEMIKART

1.4 Emergency telephone

Emergency Phone # : 000 800 1007 141 (CHEMTREC)

This is a summary SDS for a kit. For the full SDS for each of the components listed in section 16 please visit our website.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Acute toxicity, (Category 3) H301: Toxic if swallowed.

Acute toxicity, (Category 3) H331: Toxic if inhaled.

Skin irritation, (Category 2) H315: Causes skin irritation.

Eye irritation, (Category 2) H319: Causes serious eye irritation.

Skin sensitization, (Category 1) H317: May cause an allergic skin reaction.

Specific target organ toxicity - single exposure, (Category 3), Respiratory system	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, (Category 2)	H373: May cause damage to organs through prolonged or repeated exposure.
Short-term (acute) aquatic hazard, (Category 1)	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, (Category 1)	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal Word	Danger
Hazard Statements	
H301 + H331	Toxic if swallowed or if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary Statements	
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.
P314	Get medical advice/ attention if you feel unwell.
Supplemental Hazard Statements	none

Reduced Labeling (<= 125 ml)

Pictogram

Signal Word	Danger
Hazard Statements	
H317	May cause an allergic skin reaction.
H301 + H331	Toxic if swallowed or if inhaled.
Precautionary Statements	
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.

Supplemental Hazard Statements none

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

Refer to component SDS

SECTION 4: First aid measures

Refer to component SDS

SECTION 5: Firefighting measures

Refer to component SDS

SECTION 6: Accidental release measures

Refer to component SDS

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage stability Recommended storage temperature

-20 °C

Storage class

Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

Refer to component SDS

SECTION 9: Physical and chemical properties

Refer to component SDS

SECTION 10: Stability and reactivity

Refer to component SDS

SECTION 11: Toxicological information

Refer to component SDS

SECTION 12: Ecological information

Refer to component SDS

SECTION 13: Disposal considerations

Refer to component SDS

SECTION 14: Transport information**14.1 UN number**

ADR/RID: 3316

IMDG: 3316

IATA: 3316

14.2 UN proper shipping name

ADR/RID: CHEMICAL KIT

IMDG: CHEMICAL KIT

IATA: Chemical kit

14.3 Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

14.4 Packaging group

ADR/RID: III

IMDG: III

IATA: III

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

Tunnel restriction code : (E)

Further information : No data available

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

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

Refer to component SDS

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Kit Components:

3-Aminobutanoic acid	Aldrich	A44207	Skin Irrit. 2; Eye Irrit. 2; H315, H319
N-Acetyl-L-serine	No Brand	COM448662605	
L-LEUCYLGLYCINE			
L-LEUCYL-L-ALANINE			
Leu-Ser			
Leucyl-Proline			
DL-Leu-DL-Val	Aldrich	R289027	
Lys-Pro hydrochloride			
Lysyl-Valine			
Lysyl-Leucine			
L-Cysteinyglycine disulfide			
Kyotorphin			
N-Ethylglycine	Aldrich	465216	
N-Acetyl-L-proline	Sigma	A0783	
N(6)-Methyllysine			
Na-Acetyl-L-asparagine	Sigma	A5500	
L-Methionine sulfone	Sigma	M0876	
L-Homocysteic acid	Sigma	H9633	
Nε-Acetyl-L-lysine	Sigma	A4021	
Met-Gly	Sigma	M3129	
Val-Asp			
γ-Glu-Val			
Phe-Pro	Sigma	P6258	
O-(4-hydroxyphenyl)-L-tyrosine	Sigma	T5905	
N-Methyl-L-alanine	Sigma-Aldrich	02676	
N-Propionylglycine	Sigma-Aldrich	92986	
N-Isobutyrylglycine	Sigma-Aldrich	04513	Skin Irrit. 2; Eye Irrit. 2; H315, H319
N-Acetyl-DL-valine	Sigma	A7001	
N-Acetylthreonine			Eye Irrit. 2; H319
Ac-Ile-OH	Aldrich	CDS003871	
Na-Acetyl-L-glutamine	Sigma	A9125	
N-Acetyl-L-methionine	Sigma	A3258	
N-Acetylhistidine			Skin Sens. 1; H317
N-Acetyl-L-tyrosine	Sigma	W3013	
γ-Glu-Gln			
N-Acetyl-Asp-Glu	Sigma	A5930	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
α-	Sigma	M2383	Eye Irrit. 2; H319

(Methylamino)isobutyric acid			
N-Methyl-L-proline	Sigma	M8021	
N-Carbamoylsarcosine			
N-Propionylalanine			
L-Methionine sulfoxide	Sigma-Aldrich	14268	
Carboxyethyl-γ-aminobutyric acid	Sigma	C5556	
N-Formyl-L-methionine	Sigma	F3377	
N-Methylphenylalanine			
L-Homocitrulline	Sigma	SML2645	
p-Aminohippuric acid			
O-Phospho-L-threonine	Sigma-Aldrich	72852	
Leu-Leu	Sigma	L2752	
Pro-Gly	Sigma	P0880	
Nalpha -Acetyl-L-ornithine	Aldrich	S776874	
Picolinoylglycine			
Prolyl-Alanine			
N-ACETYL-L-GLUTAMIC ACID			
Phenylacetylamino-acetic acid	Aldrich	S329231	Eye Irrit. 2; H319
Thr-Ser			
Valyl-Glutamate			
L-Saccharopine	Sigma	S1634	
Selenocystine			Acute Tox. 3; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H301 + H331, H373, H410
S-Lactoylglutathione			
Glutathione, oxidized	Sigma	G6531	
L-3-Aminoisobutyric acid	Sigma	51511	
L-4-Thiazolidinecarboxylic acid	Aldrich	T27502	Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H301, H312 + H332, H315, H319, H335
N-Valerylglycine	Sigma-Aldrich	04268	
Valyl-Glycine			
Ureidosuccinic acid			
L-VALYL-L-ALANINE			
Val-Ser	Sigma	V5627	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
Val-Thr	Sigma	V5752	
Thr-Leu			
Thr-Gln	Sigma	T3275	
Val-Val-Val			
S-Nitrosoglutathione	Sigma	N4148	
L-2-Aminobutyric acid	Sigma	A2536	Skin Sens. 1; H317
L-2,4-diaminobutyric acid			Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
N-Acetyl-L-alanine	Sigma	A4625	
Iminodiacetic acid	Sigma	I0774	Eye Irrit. 2; H319
N-Isovalerylglycine	Supelco	72672	
N-Acetyl-L-aspartic acid			
Val-Met	Sigma	V5502	
Val-Tyr	Sigma	V5626	

β-Asp-Gly L-VALYL-L-VALINE Homocysteine thiolactone	Sigma	A1521	
γ-Glu-Cys	Sigma	G0903	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Classification of the mixture

Acute Tox.3	H301
Acute Tox.3	H331
Skin Irrit.2	H315
Eye Irrit.2	H319
Skin Sens.1	H317
STOT SE3	H335
STOT RE2	H373
Aquatic Acute1	H400
Aquatic Chronic1	H410

Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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CHEMIKART

Kit Components:

3-Aminobutanoic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - A44207		Warning	Causes skin irritation. Causes serious eye irritation.	Wash skin thoroughly after handling. IF ON SKIN: Wash with plenty of water. Wear protective gloves/ eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention.	

N-Acetyl-L-serine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
No Brand - COM4486626 05					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

L-LEUCYLGLYCINE					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or

					mixture according to Regulation (EC) No 1272/2008.
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L-LEUCYL-L-ALANINE

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Leu-Ser

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information

Leucyl-Proline

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

DL-Leu-DL-Val

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - R289027					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Lys-Pro hydrochloride

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Lysyl-Valine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Lysyl-Leucine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

L-Cysteinylglycine disulfide					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Kyotorphin					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

N-Ethylglycine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - 465216					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

N-Acetyl-L-proline					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - A0783					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

N(6)-Methyllysine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

N _α -Acetyl-L-asparagine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - A5500					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

L-Methionine sulfone					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - M0876					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

L-Homocysteic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - H9633					No hazard pictogram, no signal word, no hazard statement(s), no precautionary

					statement(s) required.
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N_ε-Acetyl-L-lysine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - A4021					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Met-Gly

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - M3129					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Val-Asp

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

γ-Glu-Val

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Phe-Pro

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - P6258					No hazard pictogram, no signal word, no hazard

					statement(s), no precautionary statement(s) required.
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O-(4-hydroxyphenyl)-l-tyrosine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - T5905					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

N-Methyl-L-alanine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 02676					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

N-Propionylglycine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 92986					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

N-Isobutyrylglycine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 04513		Warning	Causes skin irritation. Causes serious eye irritation.	Wash skin thoroughly after handling. IF ON SKIN: Wash with plenty of water. Wear protective gloves/ eye protection/ face protection. IF IN EYES: Rinse	

				cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.	
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N-Acetyl-DL-valine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - A7001					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

N-Acetylthreonine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
		Warning	Causes serious eye irritation.	Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wear eye protection/face protection. If eye irritation persists: Get medical advice/attention.	

Ac-Ile-OH					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - CDS003871					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

N_α-Acetyl-L-glutamine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - A9125					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

N-Acetyl-L-methionine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - A3258					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

N-Acetylhistidine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
		Warning	May cause an allergic skin reaction.	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. IF ON SKIN: Wash with plenty of water. Contaminated work clothing should not be allowed out of the workplace. If skin irritation or rash occurs: Get medical advice/	

				attention. Wear protective gloves. Take off contaminated clothing and wash it before reuse.	
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N-Acetyl-L-tyrosine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - W3013					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

γ-Glu-Gln

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

N-Acetyl-Asp-Glu

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - A5930		Warning	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.	Avoid breathing dust. IF ON SKIN: Wash with plenty of water. Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye	

				protection/ face protection.	
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α -(Methylamino)isobutyric acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - M2383		Warning	Causes serious eye irritation.	Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wear eye protection/ face protection. If eye irritation persists: Get medical advice/ attention.	

N-Methyl-L-proline

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - M8021					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

N-Carbamoylsarcosine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

N-Propionylalanine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to

					Regulation (EC) No 1272/2008.
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L-Methionine sulfoxide

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 14268					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Carboxyethyl-γ-aminobutyric acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - C5556					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

N-Formyl-L-methionine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - F3377					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

N-Methylphenylalanine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

L-Homocitrulline

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - SML2645					Not a hazardous substance or

					mixture according to Regulation (EC) No 1272/2008.
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***p*-Aminohippuric acid**

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

O-Phospho-L-threonine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 72852					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Leu-Leu

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - L2752					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Pro-Gly

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - P0880					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Nalpha -Acetyl-L-ornithine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - S776874					No hazard pictogram, no

					signal word, no hazard statement(s), no precautionary statement(s) required.
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Picolinoylglycine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Prolyl-Alanine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

N-ACETYL-L-GLUTAMIC ACID

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Phenylacetyl-amino-acetic acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - S329231		Warning	Causes serious eye irritation.	Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wear eye protection/ face protection.	

				If eye irritation persists: Get medical advice/attention.	
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Thr-Ser

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information

Valyl-Glutamate

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

L-Saccharopine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - S1634					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Selenocystine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
		Danger	Toxic if swallowed or if inhaled. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Wash skin thoroughly after handling. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.	

				Avoid release to the environment. Get medical advice/ attention if you feel unwell.	
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S-Lactoylglutathione

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Glutathione, oxidized

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - G6531					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

L-3-Aminoisobutyric acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - 51511					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

L-4-Thiazolidinecarboxylic acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - T27502		Danger	Toxic if swallowed. Harmful in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. May cause	Avoid breathing dust. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Wear protective gloves/ protective clothing/ eye	

			respiratory irritation.	protection/ face protection. IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/ doctor if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
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N-Valerylglycine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 04268					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Valyl-Glycine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Ureidosuccinic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

L-VALYL-L-ALANINE					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Val-Ser					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - V5627		Warning	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.	Avoid breathing dust. IF ON SKIN: Wash with plenty of water. Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection.	

Val-Thr					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - V5752					No hazard pictogram, no signal word, no hazard

					statement(s), no precautionary statement(s) required.
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Thr-Leu

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information

Thr-Gln

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - T3275					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Val-Val-Val

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

S-Nitrosoglutathione

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - N4148					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

L-2-Aminobutyric acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - A2536		Warning	May cause an allergic skin reaction.	Avoid breathing dust. IF ON SKIN: Wash with plenty of water. Contaminated work clothing	

				should not be allowed out of the workplace. If skin irritation or rash occurs: Get medical advice/ attention. Wear protective gloves. Take off contaminated clothing and wash it before reuse.	
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L-2,4-diaminobutyric acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
		Warning	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. IF ON SKIN: Wash with plenty of water. Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection.	

N-Acetyl-L-alanine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - A4625					No hazard pictogram, no signal word, no hazard statement(s), no precautionary

					statement(s) required.
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Iminodiacetic acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - I0774		Warning	Causes serious eye irritation.	Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wear eye protection/ face protection. If eye irritation persists: Get medical advice/ attention.	

N-Isovalerylglycine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Supelco - 72672					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

N-Acetyl-L-aspartic acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Val-Met

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - V5502					No hazard pictogram, no signal word, no hazard

					statement(s), no precautionary statement(s) required.
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Val-Tyr

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - V5626					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

β-Asp-Gly

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - A1521					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

L-VALYL-L-VALINE

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Homocysteine thiolactone

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

γ-Glu-Cys

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - G0903		Warning	Causes skin irritation.	Avoid breathing dust. IF ON	

			Causes serious eye irritation. May cause respiratory irritation.	SKIN: Wash with plenty of water. Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection.	
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