

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.

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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.

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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 stabilityRecommended 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

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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.

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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-I-serine L-LEUCYLGLYCINE L-LEUCYL-L-ALANINE Leu-Ser Leucyl-Proline	No Brand	COM448662605	
DL-Leu-DL-Val Lys-Pro hydrochloride Lysyl-Valine Lysyl-Leucine L-Cysteinylglycine disulfide Kyotorphin	Aldrich	R289027	
N-Ethylglycine N-Acetyl-L-proline N(6)-Methyllysine	Aldrich Sigma	465216 A0783	
Na-Acetyl-L-asparagine L-Methionine sulfone L-Homocysteic acid Nɛ-Acetyl-L-lysine Met-Gly Val-Asp y-Glu-Val	Sigma Sigma Sigma Sigma Sigma	A5500 M0876 H9633 A4021 M3129	
Phe-Pro O-(4-hydroxyphenyl)-l- tyrosine	Sigma Sigma	P6258 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	Eva Irrit 2, U210
N-Acetylthreonine Ac-Ile-OH Na-Acetyl-L-glutamine N-Acetyl-L-methionine	Aldrich Sigma Sigma	CDS003871 A9125 A3258	Eye Irrit. 2; H319
N-Acetylhistidine	g		Skin Sens. 1; H317
N-Acetyl-L-tyrosine γ-Glu-Gln	Sigma	W3013	
N-Acetyl-Asp-Glu	Sigma	A5930	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
a-	Sigma	M2383	Eye Irrit. 2; H319

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(Methylamino)isobutyric acid			
N-Methyl-L-proline N-Carbamoylsarcosine N-Propionylalanine	Sigma	M8021	
L-Methionine sulfoxide Carboxyethyl-y- aminobutyric acid	Sigma-Aldrich Sigma	14268 C5556	
N-Formyl-L-methionine N-Methylphenylalanine	Sigma	F3377	
L-Homocitrulline p-Aminohippuric acid	Sigma	SML2645	
O-Phospho-L-threonine Leu-Leu Pro-Gly Nalpha -Acetyl-L- ornithine Picolinoylglycine Prolyl-Alanine N-ACETYL-L-GLUTAMIC ACID	Sigma-Aldrich Sigma Sigma Aldrich	72852 L2752 P0880 S776874	
Phenylacetylamino- acetic acid Thr-Ser Valyl-Glutamate	Aldrich	S329231	Eye Irrit. 2; H319
L-Saccharopine Selenocystine	Sigma	S1634	Acute Tox. 3; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H301 + H331, H373, H410
S-Lactoylglutathione Glutathione, oxidized	Sigma	G6531	ARI
L-3-Aminoisobutyric acid L-4- Thiazolidinecarboxylic acid	Sigma Aldrich	51511 T27502	Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H301, H312 + H332, H315, H319, H335
N-Valerylglycine Valyl-Glycine Ureidosuccinic acid	Sigma-Aldrich	04268	1 11332, 11313, 11313, 11333
L-VALYL-L-ALANINE Val-Ser	Sigma	V5627	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
Val-Thr Thr-Leu	Sigma	V5752	32 3, 11313, 11313, 11333
Thr-Gln Val-Val-Val	Sigma	T3275	
S-Nitrosoglutathione L-2-Aminobutyric acid	Sigma Sigma	N4148 A2536	Skin Sens. 1; H317
L-2,4-diaminobutyric acid	0.5a	7.200	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
N-Acetyl-L-alanine Iminodiacetic acid	Sigma Sigma	A4625 I0774	Eye Irrit. 2; H319
N-Isovalerylglycine N-Acetyl-L-aspartic acid	Supelco	72672	2,0 11110, 2, 11017
Val-Met Val-Tyr	Sigma Sigma	V5502 V5626	

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β-Asp-Gly Sigma A1521

L-VALYL-L-VALINE Homocysteine thiolactone

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

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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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Kit Components:

3-Aminobuta		Cianal	11	Dun an isti a massi :	Cumplemental
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -		Warning	Causes skin	Wash skin	
A44207			irritation.	thoroughly after	
			Causes serious	handling. IF ON	
			eye irritation.	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-I-serine							
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
No Brand -					Not a hazardous		
COM4486626					substance or		
05					mixture		
					according to		
					Regulation (EC)		
					No 1272/2008.		

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

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					mixture
					according to Regulation (EC)
					No 1272/2008.
	•	•	•	•	
L-LEUCYL-L-		C: I	11	D	Complemental
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	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier	Pictogram	Word	Statements	Statements	information
TO CITE OF THE PARTY OF THE PAR		110.0	Statements	Statements	mormacion
Leucyl-Prolin Product		Cianal	Hazard	Drocoutication	Cupplamantal
identifier	Pictogram	Signal Word	Statements	Precautionary Statements	Supplemental information
Ta container		Trong	Statements	- Statements	Not a hazardous substance or mixture
			ИIIK	$1\Delta R$	according to Regulation (EC) No 1272/2008.
			VIII Y		110 127 27 20001
DL-Leu-DL-V	al .				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier Aldrich -		Word	Statements	Statements	information No hazard
R289027					pictogram, no signal word, no hazard statement(s), no
					precautionary statement(s) required.
Lva Dra brada	ooblouide				
Lys-Pro hydr Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier	rictogram	Word	Statements	Statements	information
					Not a hazardous substance or mixture
					according to Regulation (EC) No 1272/2008.

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

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

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

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N-Acetyl-L-p	roline				
Product identifier Sigma - A0783	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.
N(6)-Methy	/llysine				
Product	Dictogram	Signal	Hazard	Procautionary	Supplemental

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

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

L-Methionine s	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		, , o, u	Statements	Statements	No hazard pictogram, no signal word, no hazard statement(s), no precautionary

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					statement(s)
					required.
A/ Acotyl I lyci	ino				
N _ε -Acetyl-L-lysi Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier	rictogram	Word	Statements	Statements	information
Sigma -		VVOIG	Statements	Statements	No hazard
A4021					pictogram, no
7(1021					signal word, no
					hazard
					statement(s), no
					precautionary
					statement(s)
					required.
Mat Clas					
Met-Gly Product	Distogram	Cianal	Hazard	Drocautionany	Cunniamental
identifier	Pictogram	Signal Word	Statements	Precautionary Statements	Supplemental information
Sigma -		vvoiu	Statements	Statements	No hazard
M3129					pictogram, no
113129					signal word, no
					hazard
					statement(s), no
					precautionary
					statement(s)
					required.
Val-Asp	D: -t	I Ci aua a I	111	Describe	Consideration
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information Not a hazardous
					substance or
					mixture
					according to
					Regulation (EC)
					No 1272/2008.
		•		•	
γ-Glu-Val	D: -t	G:I	Tu	D	Commission
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
identifier		vvoru	Statements	Statements	Not a hazardous
					substance or
					mixture
					according to
					Regulation (EC)
					No 1272/2008.
Phe-Pro	Dieter	Cienal	Homera	Duo op : :ti a :: - :: :	Cumplement
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier Sigma -		Word	Statements	Statements	information No hazard
Sigma - P6258					pictogram, no
FUZJO					signal word, no
					hazard
	<u> </u>	_1	1	1	.102010

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			statement(s), no
			precautionary
			statement(s)
			required.

O-(4-hydrox	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-ala	<i>N</i> -Methyl-L-alanine						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
Sigma-Aldrich					No hazard		
- 02676					pictogram, no		
					signal word, no		
					hazard		
					statement(s), no		
					precautionary		
					statement(s)		
					required.		

N-Propionylgl	ycine				
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		

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cautiously with water for several minutes. Remove contact lenses, if present and
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-DL-v	N-Acetyl-DL-valine						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
Sigma -					No hazard		
A7001					pictogram, no		
					signal word, no		
					hazard		
					statement(s), no		
					precautionary		
					statement(s)		
					required.		

N-Acetylthre	N-Acetylthreonine 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.				

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

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

N-Acetyl-L-methionine						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		Word	Statements	Statements	information	
Sigma -					No hazard	
A3258					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/			

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attention. Wear protective gloves. Take off contaminated clothing and
wash it before
reuse.

N-Acetyl-L-	N-Acetyl-L-tyrosine						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
Sigma -					No hazard		
W3013					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
			ЛП	ΛБ	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

N-Acetyl-Asn-Glu							
N-Acetyl-Asp Product identifier Sigma - A5930	Pictogram	Signal Word Warning	Hazard Statements Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.	Precautionary Statements 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-	Supplemental information		
				rinsing. Use only outdoors or			

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Product	mino)isobutyri Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier	rictogram	Word	Statements	Statements	information
Sigma -		Warning	Causes serious	Wash skin	IIIIOIIIIacioii
M2383		Warning	eye irritation.	thoroughly after	
112303			Cyc IIIIcacioni	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.	

protection/ face protection.

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

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

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

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	1				
					Regulation (EC)
					No 1272/2008.
L-Methionine		T 0: 1			
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma-Aldrich					No hazard
- 14268					pictogram, no
					signal word, no hazard
					statement(s), no
					precautionary
					statement(s)
					required.
		•	1		
Carboxyethyl-	-y-aminobut	vric acid			
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma -					No hazard
C5556					pictogram, no
					signal word, no
					hazard
					statement(s), no
					precautionary
					statement(s)
					required.
N-Formyl-L-me	thioning				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier	rictogram	Word	Statements	Statements	information
Sigma -		Word	Statements	Statements	No hazard
F3377					pictogram, no
13377					signal word, no
					hazard
					statement(s), no
					precautionary
					statement(s)
					required.
N-Methylpher		T 6: ·	1		
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
					Not a hazardous
					substance or
					mixture according to
					Regulation (EC)
					No 1272/2008.
	1	1	1	<u> </u>	110 12/2/20001
L-Homocitrull	line				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier	1.000 g. a	Word	Statements	Statements	information
Sigma -					Not a hazardous
SML2645					substance or
1	1	1			

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					mixture
					according to
					Regulation (EC)
					No 1272/2008.
					110 1272/20001
<i>p</i> -Aminohippur	ic acid				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
		11.01.0			Not a hazardous
					substance or
					mixture
					according to
					Regulation (EC)
					No 1272/2008.
					110 1272/20001
O-Phospho-L-	threonine				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier	riccogram	Word	Statements	Statements	information
Sigma-Aldrich		Word	Statements	Statements	Not a hazardous
- 72852					substance or
- 72032					mixture
					according to
					Regulation (EC)
					No 1272/2008.
					110 1272/2000.
Leu-Leu					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier	riccogram	Word	Statements	Statements	information
Sigma -		Word	Statements	Statements	No hazard
L2752					pictogram, no
L2732					signal word, no
					hazard
					statement(s), no
					precautionary
					statement(s)
					required.
	I		I		1
Pro-Gly					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma -					No hazard
P0880					pictogram, no
					signal word, no
					hazard
					statement(s), no
					precautionary
					statement(s)
					required.
Nalpha -Acety			_	<u> </u>	1
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Aldrich -					No hazard
S776874					pictogram, no

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					signal word, no hazard
					statement(s), no precautionary
					statement(s) required.
Picolinoylglyc	ine				
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	<u> </u>				
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-G	SLUTAMIC AC	CID			_
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
Phenylacetyla	mino-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.	

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				persists: Get medical advice/ attention.	
Thr-Ser					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information

If eye irritation

Valyl-Glutamate						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		Word	Statements	Statements	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	; -		ЛIK	AR	No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

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

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

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

Glutathione,	Glutathione, oxidized						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
Sigma -					No hazard		
G6531					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-Thiazolidine	L-4-Thiazolidinecarboxylic acid					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		Word	Statements	Statements	information	
Aldrich -		Danger	Toxic if	Avoid breathing		
T27502			swallowed.	dust. IF		
			Harmful in	SWALLOWED:		
			contact with skin	Immediately call		
			or if inhaled.	a POISON		
			Causes skin	CENTER/ doctor.		
			irritation.	Wear protective		
			Causes serious	gloves/		
			eye irritation.	protective		
			May cause	clothing/ eye		

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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.	

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

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

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

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

Val-Ser					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma -		Warning	Causes skin	Avoid breathing	
V5627			irritation.	dust. IF ON	
			Causes serious	SKIN: Wash	
			eye irritation.	with plenty of	
			May cause	water. Wash	
			respiratory	skin thoroughly	
			irritation.	after handling.	
			VIIII	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	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma -					No hazard
V5752					pictogram, no
					signal word, no
					hazard

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					statement(s), no
					precautionary
					statement(s)
					required.
Thr-Leu					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier	riccogram	Word	Statements	Statements	information
Tachtiner		Word	Statements	Statements	mormation
Thr-Gln		T =	T.,		T
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma -					No hazard
T3275					pictogram, no
					signal word, no
					hazard
					statement(s), no
					precautionary
					statement(s)
					required.
	•	•	•	•	•
Val-Val-Val		T =	Т	T	T
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
					Not a hazardous
					substance or
					mixture
					according to
			\mathbf{V}		Regulation (EC)
					No 1272/2008.
S-Nitrosoglu		Cianal	Howard	Ducasutionsmi	Cumplemental
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
Product identifier		Signal Word	Hazard Statements	Precautionary Statements	information
Product identifier Sigma -					information No hazard
Product identifier					information No hazard pictogram, no
Product identifier Sigma -					information No hazard pictogram, no signal word, no
Product identifier Sigma -					information No hazard pictogram, no signal word, no hazard
Product identifier Sigma -					information No hazard pictogram, no signal word, no
Product identifier Sigma -					information No hazard pictogram, no signal word, no hazard
Product identifier Sigma -					information No hazard pictogram, no signal word, no hazard statement(s), no precautionary
Product identifier Sigma -					information No hazard pictogram, no signal word, no hazard statement(s), no
Product identifier Sigma - N4148	Pictogram				information No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s)
Product identifier Sigma - N4148 L-2-Aminobut	Pictogram	Word	Statements	Statements	information No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.
Product identifier Sigma - N4148 L-2-Aminobut Product	Pictogram	Word	Statements	Statements Precautionary	information No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required. Supplemental
Product identifier Sigma - N4148 L-2-Aminobut Product identifier	Pictogram	Word Signal Word	Statements Hazard Statements	Precautionary Statements	information No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.
Product identifier Sigma - N4148 L-2-Aminobut Product identifier Sigma -	Pictogram	Word	Hazard Statements May cause an	Precautionary Statements Avoid breathing	information No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required. Supplemental
Product identifier Sigma - N4148 L-2-Aminobut Product identifier	Pictogram	Word Signal Word	Hazard Statements May cause an allergic skin	Precautionary Statements Avoid breathing dust. IF ON	information No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required. Supplemental
Product identifier Sigma - N4148 L-2-Aminobut Product identifier Sigma -	Pictogram	Word Signal Word	Hazard Statements May cause an	Precautionary Statements Avoid breathing dust. IF ON SKIN: Wash	information No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required. Supplemental
Product identifier Sigma - N4148 L-2-Aminobut Product identifier Sigma -	Pictogram	Word Signal Word	Hazard Statements May cause an allergic skin	Precautionary Statements Avoid breathing dust. IF ON SKIN: Wash with plenty of	information No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required. Supplemental
Product identifier Sigma - N4148 L-2-Aminobut Product identifier Sigma -	Pictogram	Word Signal Word	Hazard Statements May cause an allergic skin	Precautionary Statements Avoid breathing dust. IF ON SKIN: Wash with plenty of water.	information No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required. Supplemental
Product identifier Sigma - N4148 L-2-Aminobut Product identifier Sigma -	Pictogram	Word Signal Word	Hazard Statements May cause an allergic skin	Precautionary Statements Avoid breathing dust. IF ON SKIN: Wash with plenty of	information No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required. Supplemental

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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.

L-2,4-diamin	obutyric acid				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
		Warning	Causes skin	Avoid breathing	
			irritation.	dust/ fume/	
			Causes serious	gas/ mist/	
			eye irritation.	vapors/ spray.	
			May cause	IF ON SKIN:	
			respiratory	Wash with	
			irritation.	plenty of water.	
				Wash skin	
				thoroughly after	
				handling. IF IN	
				EYES: Rinse	
	7			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-a	lanine				
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

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Iminodiace	tic acid				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma -		Warning	Causes serious	Wash skin	
I0774			eye irritation.	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.	

statement(s) required.

N-Isovaleryl	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)

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

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	1	1			
					statement(s), no precautionary statement(s)
					required.
Val-Tyr					1
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma -					No hazard
V5626					pictogram, no signal word, no hazard statement(s), no
					precautionary statement(s) required.
					required.
β-Asp-Gly					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma - A1521					No hazard pictogram, no
AIJZI					signal word, no
					hazard
					statement(s), no
					precautionary
					statement(s)
			- // //-		required.
L-VALYL-L-	VALINE				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
					Not a hazardous substance or
					mixture
					according to Regulation (EC)
					No 1272/2008.
	I	<u> </u>	<u> </u>	I	110 1272/20001
Homocystei	ne thiolactone	2			
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
					Not a hazardous
					substance or mixture
					according to
					Regulation (EC)
					No 1272/2008.
Cl C					
γ-Glu-Cys Product	Dictogram	Signal	Hazard	Procautionand	Supplemental
identifier	Pictogram	Signal Word	Statements	Precautionary Statements	Supplemental information
Sigma -		Warning	Causes skin	Avoid breathing	momation
G0903	ĺ	1	Caases Skill	, Sid bi cutilling	
1 60903			irritation.	dust. IF ON	

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		Causes serious	SKIN: Wash	
		eye irritation.	with plenty of	
		May cause	water. Wash	
		respiratory	skin thoroughly	
		irritation.	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.	

CHEMIKART

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