



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 8.12

Revision Date 02.07.2024

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 : Microbiome Metabolite Library Of Standards Plate 1 (Ethanol And Methanol Soluble)

Product Number : GUTMLS01

Brand : Sigma

REACH No. : This product is a mixture. REACH Registration Number see section 3.

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

Flammable liquids, (Category 2) H225: Highly flammable liquid and vapor.

Corrosive to Metals, (Category 1) H290: May be corrosive to metals.

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

Skin corrosion, (Sub-category 1B)	H314: Causes severe skin burns and eye damage.
Serious eye damage, (Category 1)	H318: Causes serious eye damage.
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.
Long-term (chronic) aquatic hazard, (Category 2)	H411: 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	
H225	Highly flammable liquid and vapor.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
Precautionary Statements	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	none

Reduced Labeling (<= 125 ml)

Pictogram

Signal Word	Danger
Hazard Statements	
H301	Toxic if swallowed.
H317	May cause an allergic skin reaction.
H314	Causes severe skin burns and eye damage.
Precautionary Statements	
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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 protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

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

No metal containers.

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. 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): 3: Flammable liquids

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: II

IMDG: II

IATA: II

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

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:**

Allyl methyl sulfide	Aldrich	A34201	Flam. Liq. 2; H225
4-Methyl-5-thiazoleethanol	Aldrich	190675	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
p-Coumaric acid	Aldrich	H23201	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
4-Hydroxyphenylpyruvic acid	Sigma	H5005	Skin Irrit. 2; Eye Irrit. 2; H315, H319
DL- β -Hydroxylauric acid	Sigma	H3398	Acute Tox. 4; H302
13-Methylmyristic acid	Sigma	M7031	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
2-Hydroxytetradecanoic acid	Sigma	H6771	
15-Methylpalmitic acid	Sigma	M6531	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
2-Hydroxyhexadecanoic acid	Sigma	H7021	

acid			
17-Methylstearic acid	Sigma	M6031	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
12,13-DiHOME			
Quinine	Aldrich	145904	Acute Tox. 4; Skin Sens. 1; H302, H317
(-)-Cotinine	Aldrich	284718	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H302, H315, H319, H335
3,4-Dihydroxyhydrocinnamic acid	Aldrich	102601	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
(±)-3-Hydroxydecanoic acid	Sigma	H3648	
L,L-Cyclo(leucylpropyl) DI-β-hydroxymyristic Acid	Sigma	H4148	
Daidzein	Sigma	D176	Skin Irrit. 2; Eye Irrit. 2; H315, H319
gamma-CEHC			
DL-β-Hydroxypalmitic acid	Sigma	H4398	
4-Cholesten-3-one			
Coprostan-3-ol	Aldrich	C7578	
Butyryl-L-carnitine	Sigma	42623	
Arachidonic acid	Sigma	A3555	
N-Hexanoylglycine	Sigma-Aldrich	93544	Skin Irrit. 2; Eye Irrit. 2; H315, H319
S-Equol	Sigma	SML2147	
1,11-Undecanedicarboxylic acid	Aldrich	U601	Eye Irrit. 2; Aquatic Chronic 3; H319, H412
16-Hydroxyhexadecanoic acid	Aldrich	177490	
Hexadecanedioic acid	Aldrich	177504	
(+/-)-Enterolactone	Sigma-Aldrich	42363	
Hesperetin	Cerilliant	PHY89222	Acute Tox. 4; H302
cis-11-Eicosenoic acid			
Decanoylcarnitine			
Arachidonylethanolamide	Sigma	A0580	
Glycodeoxycholic acid	Sigma	700267P	
Arachidonyl-L-carnitine	Sigma-Aldrich	30172	
Oxindole	Sigma	O5002	
Hydrocinnamic acid	Aldrich	135232	
Nω-Acetylhistamine	Aldrich	858897	
3-Indoleacetic acid	Sigma	I2886	
Indole-3-propionic acid	Sigma	57400	
N-Formyl-L-phenylalanine	Sigma	F3889	
Isobutyryl-L-carnitine	Sigma-Aldrich	91299	
Isovaleryl-L-carnitine	Sigma	51371	
Heptadecanoic acid	Aldrich	H1000	

Naringenin	Supelco	PHL89738	Acute Tox. 4; H302
13Z,16Z-docosadienoic acid			
2,7,8-trimethyl-2-(4,8,12-trimethyl-3,7,11-tridecatrienyl)-6-chromanol	Sigma-Aldrich	77992	
Phenethylamine	Aldrich	128945	Met. Corr. 1; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; H290, H301, H314
Skatole	Aldrich	W301906	Aquatic Chronic 2; H411
Proline betaine			
Phenylacetylglutamine			
Piperine	Aldrich	P49007	Acute Tox. 4; Aquatic Chronic 2; H302, H411
Palmitoylethanolamide	Sigma	P0359	Skin Irrit. 2; Eye Dam. 1; Aquatic Chronic 2; H315, H318, H411
Stearoyl ethanolamide	Sigma	S8439	
Hyochoic acid			
Glycolithocholic acid	Sigma	700268P	
4-Aminobenzoic acid	Aldrich	100536	Aquatic Chronic 3; H412
Propionyl-L-carnitine	Sigma-Aldrich	91275	
Octanoyl-L-carnitine	Sigma	50892	
Stigmasterol	Sigma	S2424	
Syringic acid	Sigma	S6881	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
Palmitoleic acid	Sigma	P6212	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Aquatic Chronic 4; H315, H319, H335, H413
DL- α -Hydroxystearic acid	Sigma	H9631	
N-Acetyl-Asp-Glu	Sigma	A5930	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335
Ectoine	Sigma	E2271	
3-Indoleacetonitrile	Aldrich	129453	
5-Phenylvaleric acid	Aldrich	P37602	
Harmane	Aldrich	103276	
3-Oxindole-3-acetate			Acute Tox. 4; H302
3-Hydroxyhippuric acid	Sigma-Aldrich	SMB00940	
1,7-Dimethyluric acid	Sigma	D8663	
N-(3-Phenylpropionyl)glycine	Sigma-Aldrich	94348	Eye Dam. 1; H318
5-Acetylamino-6-formylamino-3-methyluracil			
3-Carboxy-4-methyl-5-propyl-2-furanpropionic acid	Sigma-Aldrich	90833	
12-Hydroxyoctadecanoic acid	Aldrich	X16819	
Ferulic acid 4-sulfate			
Suberic acid	Aldrich	S5200	Eye Irrit. 2; H319

Propyl 4-hydroxybenzoate	Sigma-Aldrich	P5835	Aquatic Chronic 3; H412
trans-3-Indoleacrylic acid	Aldrich	I3807	
3-(4-Hydroxy-3-methoxyphenyl)propionic acid	Aldrich	17803	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H302, H315, H319, H335
N-Cinnamoylglycine	Sigma-Aldrich	98956	Acute Tox. 4; H302
Undecanedioic acid	Aldrich	177962	Eye Irrit. 2; H319
5 α -Cholestan-3 β -ol	Aldrich	D104604	
Nutriacholic Acid			
Isoursodeoxycholic acid			Skin Irrit. 2; Eye Irrit. 2; H315, H319
7-Ketodeoxycholic acid	Sigma	SMB00806	
AAMU	Sigma	UC432	
Myristoyl-L-carnitine	Sigma	61367	

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

Flam. Liq.2	H225
Met. Corr.1	H290
Acute Tox.3	H301
Skin Corr.1B	H314
Eye Dam.1	H318
Skin Sens.1	H317
STOT SE3	H335
Aquatic Chronic2	H411

Classification procedure:

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:

Allyl methyl sulfide					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - A34201		Danger	Highly flammable liquid and vapor.	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.	

4-Methyl-5-thiazoleethanol					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - 190675		Warning	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.	Avoid breathing mist or vapors. 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.	

<i>p</i> -Coumaric acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - H23201		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.	

4-Hydroxyphenylpyruvic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - H5005		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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DL-β-Hydroxylauric acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - H3398		Warning	Harmful if swallowed.	Wash skin thoroughly after handling. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Dispose of contents/ container to an approved waste disposal plant. Do not eat, drink or smoke when using this product.	

13-Methylmyristic acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - M7031		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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2-Hydroxytetradecanoic acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - H6771					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

15-Methylpalmitic acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - M6531		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.	

2-Hydroxyhexadecanoic acid

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

H7021					substance or mixture according to Regulation (EC) No 1272/2008.
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17-Methylstearic acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - M6031		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.	

12,13-DIHOME

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

Quinine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - 145904		Warning	Harmful if swallowed. May cause an allergic skin	Avoid breathing dust. IF SWALLOWED: Call a POISON	

			reaction.	CENTER/ doctor if you feel unwell. Wash skin thoroughly after handling. IF ON SKIN: Wash with plenty of water. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.	
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(-)-Cotinine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - 284718		Warning	Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.	Avoid breathing dust. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	

3,4-Dihydroxyhydrocinnamic acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - 102601		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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(±)-3-Hydroxydecanoic acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - H3648					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

L,L-Cyclo(leucylprolyl)

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

DI-β-hydroxymyristic Acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - H4148					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Daidzein

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - D176		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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gamma-CEHC

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-β-Hydroxypalmitic acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - H4398					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

4-Cholesten-3-one

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

Coprostan-3-ol					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - C7578					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

Butyryl-L-carnitine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - 42623					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Arachidonic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - A3555					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

N-Hexanoylglycine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 93544		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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S-Equol					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - SML2147					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

1,11-Undecanedicarboxylic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - U601		Warning	Causes serious eye irritation. Harmful to aquatic life with long lasting effects.	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. Dispose of contents/ container to an approved waste disposal plant. Avoid release to the environment. If eye irritation persists: Get medical advice/ attention. Wear eye protection/ face protection.	

16-Hydroxyhexadecanoic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - 177490					Not a hazardous substance or mixture.

Hexadecanedioic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - 177504					Not a hazardous substance or mixture.

(+/-)-Enterolactone					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 42363					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Hesperetin					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Cerilliant - PHY89222		Warning	Harmful if swallowed.	Wash skin thoroughly after handling. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Dispose of contents/ container to an approved waste disposal plant. Do not eat, drink or smoke when using this product.	

cis-11-Eicosenoic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture.

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

Arachidonylethanolamide					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - A0580					Not a hazardous substance or mixture.

Glycodeoxycholic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - 700267P					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Arachidonyl-L-carnitine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 30172					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Oxindole					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - O5002					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Hydrocinnamic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - 135232					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Nω-Acetylhistamine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - 858897					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

3-Indoleacetic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - I2886					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Indole-3-propionic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - 57400					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

N-Formyl-L-phenylalanine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - F3889					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Isobutyryl-L-carnitine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 91299					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Isovaleryl-L-carnitine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - 51371					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Heptadecanoic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - H1000					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Naringenin					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Supelco - PHL89738		Warning	Harmful if swallowed.	Wash skin thoroughly after handling. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. Dispose of contents/ container to an approved waste disposal plant. Do not eat, drink or smoke when using this product.	

13Z,16Z-docosadienoic 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.

2,7,8-trimethyl-2-(4,8,12-trimethyl-3,7,11-tridecatrienyl)-6-chromanol					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 77992					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Phenethylamine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - 128945		Danger	May be corrosive to metals. Toxic if swallowed. Causes severe skin burns and eye damage.	Keep only in original packaging. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. IF IN EYES: Rinse cautiously with water for	

				several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wash contaminated clothing before reuse.	
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Skatole					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - W301906			Toxic to aquatic life with long lasting effects.	Avoid release to the environment. Collect spillage. Dispose of contents/ container to an approved waste disposal plant.	

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

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

Piperine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - P49007		Warning	Harmful if swallowed. Toxic to aquatic life with long	Wash skin thoroughly after handling. IF SWALLOWED:	

			lasting effects.	Call a POISON CENTER/ doctor if you feel unwell. Dispose of contents/ container to an approved waste disposal plant. Do not eat, drink or smoke when using this product. Collect spillage. Avoid release to the environment.	
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Palmitoylethanolamide

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - P0359		Danger	Causes skin irritation. Causes serious eye damage. Toxic to aquatic life with long lasting effects.	Wash skin thoroughly after handling. IF ON SKIN: Wash with plenty of water. Avoid release to the environment. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wear protective gloves/ eye protection/ face protection. If skin irritation occurs: Get medical advice/ attention.	

Stearoyl ethanolamide

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

S8439					mixture according to Regulation (EC) No 1272/2008.
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Hyocholic 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.

Glycolithocholic acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - 700268P					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

4-Aminobenzoic acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - 100536			Harmful to aquatic life with long lasting effects.	Avoid release to the environment. Dispose of contents/ container to an approved waste disposal plant.	

Propionyl-L-carnitine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 91275					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Octanoyl-L-carnitine

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

50892					substance or mixture according to Regulation (EC) No 1272/2008.
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Stigmasterol

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - S2424					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Syringic acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - S6881		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.	

Palmitoleic acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - P6212		Warning	Causes skin irritation. Causes serious eye irritation.	Avoid breathing mist or vapors. IF ON SKIN: Wash with	

			May cause respiratory irritation. May cause long lasting harmful effects to aquatic life.	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. Avoid release to the environment.	
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DL- α -Hydroxystearic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - H9631					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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Ectoïne

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - E2271					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

3-Indoleacetonitrile

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - 129453					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

5-Phenylvaleric acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - P37602					Not a hazardous substance or mixture.

Harmene

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - 103276					Not a hazardous substance or mixture.

3-Oxindole-3-acetate

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
		Warning	Harmful if swallowed.	Wash skin thoroughly after handling. IF SWALLOWED:	

				Call a POISON CENTER/ doctor if you feel unwell. Dispose of contents/ container to an approved waste disposal plant. Do not eat, drink or smoke when using this product.	
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3-Hydroxyhippuric acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - SMB00940					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

1,7-Dimethyluric acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - D8663					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

N-(3-Phenylpropionyl)glycine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 94348		Danger	Causes serious eye damage.	Wear 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.	

5-Acetylamino-6-formylamino-3-methyluracil					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

3-Carboxy-4-methyl-5-propyl-2-furanpropionic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 90833					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

12-Hydroxyoctadecanoic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - X16819					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Ferulic acid 4-sulfate					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Suberic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - S5200		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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Propyl 4-hydroxybenzoate

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - P5835			Harmful to aquatic life with long lasting effects.	Avoid release to the environment. Dispose of contents/ container to an approved waste disposal plant.	

***trans*-3-Indoleacrylic acid**

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - I3807					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

3-(4-Hydroxy-3-methoxyphenyl)propionic acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - 17803		Warning	Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.	Avoid breathing dust. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Wash skin thoroughly after handling. IF ON SKIN: Wash with plenty of water.	

				Use only outdoors or in a well-ventilated area. 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-Cinnamoylglycine

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma-Aldrich - 98956		Warning	Harmful if swallowed.	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.	

Undecanedioic acid

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - 177962		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.	

5α-Cholestan-3β-ol					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Aldrich - D104604					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

Nutriacholic 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.

Isoursodeoxycholic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
		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.	

7-Ketodeoxycholic acid					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - SMB00806					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

AAMU					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - UC432					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

Myristoyl-L-carnitine					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - 61367					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.