

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.7

Revision Date 03.01.2024

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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 : Bile Acid/Carnitine/Sterol Metabolite Library of Standards

Product Number : BACSMLS

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

Acute toxicity, (Category 4) H302: Harmful if swallowed.

Acute toxicity, (Category 4) H332: Harmful if inhaled.

Acute toxicity, (Category 4) H312: Harmful in contact with skin.

| | |
|--|--|
| Skin irritation, (Category 2) | H315: Causes skin irritation. |
| Eye irritation, (Category 2) | H319: Causes serious eye irritation. |
| Reproductive toxicity, (Category 2) | H361d: Suspected of damaging the unborn child. |
| Specific target organ toxicity - single exposure, (Category 3), Respiratory system | H335: May cause respiratory irritation. |
| Long-term (chronic) aquatic hazard, (Category 3) | H412: Harmful to aquatic life with long lasting effects. |

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

| | |
|--------------------------------|---|
| Signal Word | Warning |
| Hazard Statements | |
| H302 + H312 + H332 | Harmful if swallowed, in contact with skin or if inhaled. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H361d | Suspected of damaging the unborn child. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Precautionary Statements | |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection. |
| P301 + P312 | IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. |
| P302 + P352 + P312 | IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/ doctor if you feel unwell. |
| P304 + P340 + P312 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. |
| P308 + P313 | IF exposed or concerned: Get medical advice/ attention. |
| Supplemental Hazard Statements | none |

Reduced Labeling (<= 125 ml)

Pictogram

| | |
|-------------|---------|
| Signal Word | Warning |
|-------------|---------|

| | |
|--------------------------------|---|
| Hazard Statements | |
| H412 | Harmful to aquatic life with long lasting effects. |
| H361d | Suspected of damaging the unborn child. |
| Precautionary Statements | |
| P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection. |
| P308 + P313 | IF exposed or concerned: Get medical advice/ attention. |
| Supplemental Hazard Statements | none |

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

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

Tightly closed.

Storage stability Recommended storage temperature

-20 °C

Storage class

Storage class (TRGS 510): 10: Combustible 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: -

IMDG: -

IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

No data available

Further information

Not classified as dangerous in the meaning of transport regulations.

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:**

5?-Cholestane

7-dehydrocholesterol

Epicoprostanol

Deoxycholic acid

Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H302, H315, H319, H335

Brassicasterol

7?-Hydroxy-4-cholesten-3-one

7?-Hydroxycholesterol

Allocholic Acid

Diosgenin

7-Hydroxy-3-oxo-

Cholest-4-en-26-oic Acid

Sodium

glycochenodeoxycholate
Taurocholic acid sodium
salt hydrate
Cortisone
Cholesterol
Coprostan-3-ol
5-Cholesten-3?-ol-7-one
Cholesterol 5?,6?-
epoxide
?-Muricholic Acid
Cholesteryl acetate
Cholesteryl palmitate
Cholesteryl linoleate
Cholesteryl oleate
Cholesteryl stearate
Cholesteryl behenate
Desmosterol
5?-Cholest-7-en-3?-ol
5?-Cholestan-3?-ol
Chenodeoxycholic acid

Repr. 2; H361d

Ergosterol
Campesterol

Skin Irrit. 2; Eye Irrit. 2; H315,
H319
Aquatic Chronic 4; H413
Acute Tox. 4; Skin Irrit. 2; Eye
Irrit. 2; STOT SE 3; H302 +
H312 + H332, H315, H319,
H335

24(S)-
Hydroxycholesterol
Cholic acid

Skin Irrit. 2; Eye Irrit. 2; H315,
H319

Stigmasterol
?-Sitosterol
Lanosterol
Acetyl-DL-carnitine
hydrochloride
2-Methylbutyryl-L-
carnitine
Malonyl-L-carnitine
Hexanoyl-L-carnitine
3-Oxo-5?-cholanoic Acid
Nutriacholic Acid
Hyodeoxycholic acid
Dehydrocholic acid
?-Muricholic Acid
Glycolithocholic Acid
sodium salt
Glycoursodeoxycholic
acid
Glycocholic acid hydrate
3-
Hydroxybutyrylcarnitine
Chloride

Eye Irrit. 2; H319

27-hydroxycholesterol
Ursocholic Acid
Sodium
tauroursodeoxycholate
Arachidonyl-L-carnitine
Tauro-?-muricholic acid
sodium salt
L-Carnitine hydrochloride
Isobutyryl-L-carnitine
Isovaleryl-L-carnitine
Glutaryl-L-carnitine
lithium salt
[(3R)-3-
Hydroxydodecanoyl]-L-
carnitine
Propionyl-L-carnitine
Palmitoyl-L-carnitine

Skin Irrit. 2; Eye Irrit. 2; H315, H319

Skin Irrit. 2; Eye Irrit. 2; STOT
SE 3; H315, H319, H335

carnitine
Glycohyodeoxycholic
Acid
Sodium
taurochenodeoxycholate
Propionyl-L-carnitine
Tigloyl-L-carnitine
Valeryl-L-carnitine
O-Succinyl-L-carnitine
lithium salt
trans-2-Octenoyl-L-
carnitine
Octanoyl-L-carnitine
3-Methylglutarylcarnitine
trans-2-Tetradecenoyl-L-
carnitine
Myristoyl-L-carnitine
Oleoyl-L-carnitine
Stearoyl-L-carnitine
Glycodeoxycholic acid
sodium salt

Skin Irrit. 2; Eye Irrit. 2; STOT
SE 3; H315, H319, H335

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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.4 | H302 |
| Acute Tox.4 | H332 |
| Acute Tox.4 | H312 |
| Skin Irrit.2 | H315 |
| Eye Irrit.2 | H319 |
| Repr.2 | H361d |
| STOT SE3 | H335 |
| Aquatic Chronic3 | H412 |

Classification procedure:

| |
|--------------------|
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |

Further information

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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:

| 5?-Cholestane | | | | | |
|----------------------|-----------|-------------|-------------------|--------------------------|---|
| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
| | | | | | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. |

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

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

| Deoxycholic acid | | | | | |
|-------------------------|-----------|-------------|---|---|--------------------------|
| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
| | | 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. Do not eat, drink or smoke when using this product. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | |
|--|--|--|--|---|--|

Brassicasterol

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

7?-Hydroxy-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. |

7?-Hydroxycholesterol

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

| Allocholic 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. |

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

| 7-Hydroxy-3-oxo-Cholest-4-en-26-oic 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. |

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

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

| Cortisone | | | | | |
|--------------------|-----------|-------------|---|--|--------------------------|
| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
| | | Warning | Suspected of damaging the unborn child. | Obtain special instructions before use. IF exposed or concerned: Get medical advice/ attention. Store locked up. Dispose of contents/ container to an approved waste disposal plant. Do not handle until all safety precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face protection. | |

| Cholesterol | | | | | |
|--------------------|-----------|-------------|-------------------|--------------------------|---|
| 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 |
| | | | | | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. |

| 5-Cholesten-3?-ol-7-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. |

| Cholesterol 5?,6?-epoxide | | | | | |
|----------------------------------|-----------|-------------|-------------------|--------------------------|---|
| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
| | | | | | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. |

| ?-Muricholic 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. |

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

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

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

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

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

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

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

| 5?-Cholest-7-en-3?-ol | | | | | |
|------------------------------|-----------|-------------|-------------------|--------------------------|---|
| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
| | | | | | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. |

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

| Chenodeoxycholic 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 skin irritation occurs: Get medical advice/ attention. Wear eye protection/ face protection. If eye irritation persists: Get medical advice/ attention. Wear protective gloves. Take off contaminated clothing and wash it before reuse. | |

| Ergosterol | | | | | |
|--------------------|-----------|-------------|---|--|--------------------------|
| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
| | | | May cause long lasting harmful effects to aquatic life. | Avoid release to the environment. Dispose of | |

| | | | | | |
|--|--|--|--|---|--|
| | | | | contents/ container to an approved waste disposal plant. | |
|--|--|--|--|---|--|

Campesterol

| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
|--------------------|-----------|-------------|--|---|--------------------------|
| | | Warning | Harmful if swallowed, in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. | Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Wear protective gloves/ protective clothing/ eye 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. | |

| 24(S)-Hydroxycholesterol | | | | | |
|---------------------------------|-----------|-------------|-------------------|--------------------------|---|
| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
| | | | | | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. |

| Cholic 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 skin irritation occurs: Get medical advice/ attention. Wear eye protection/ face protection. If eye irritation persists: Get medical advice/ attention. Wear protective gloves. Take off contaminated clothing and wash it before reuse. | |

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

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

| | | | | | |
|--|--|--|--|--|----------------------------------|
| | | | | | Regulation (EC) No 1272/2008. |
|--|--|--|--|--|----------------------------------|

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

| Acetyl-DL-carnitine 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. |

| 2-Methylbutyryl-L-carnitine | | | | | |
|------------------------------------|-----------|-------------|-------------------|--------------------------|---|
| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
| | | | | | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. |

| Malonyl-L-carnitine | | | | | |
|----------------------------|-----------|-------------|--------------------------------|---|--------------------------|
| 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. | |
|--|--|--|--|---|--|

Hexanoyl-L-carnitine

| 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-Oxo-5?-cholanoic 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. |

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. |

Hydoxycholic 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. |

Dehydrocholic 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. |
|--|--|--|--|--|--|

?-Muricholic 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 sodium salt

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

Glycoursodeoxycholic 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. |

Glycocholic acid hydrate

| 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-Hydroxybutyrylcarnitine Chloride

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

| | | | | | |
|--|--|--|--|--|----------------------------------|
| | | | | | Regulation (EC) No 1272/2008. |
|--|--|--|--|--|----------------------------------|

Corticosterone

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

Lithocholic 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. |

Nor-Desoxycholic 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. |

Murideoxycholic 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. |

25-Hydroxycholesterol

| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
|--------------------|-----------|-------------|-------------------|--------------------------|---|
| | | | | | Not a hazardous substance or mixture according to Regulation (EC) |

| | | | | | |
|--|--|--|--|--|---------------|
| | | | | | No 1272/2008. |
|--|--|--|--|--|---------------|

| (3ALPHA,5BETA,7ALPHA)-3,7-DIHYDROXY-12-OXOCHOLAN-24-OIC 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. | |

| Hyochoic 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. |

| 3?,7?,12?-Trihydroxycoprostanic 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. |
|--|--|--|--|--|----------------------------------|

Sodium tauroolithocholate

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

Taurodeoxycholic Acid (sodium salt)

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

Tauro-?-muricholic Acid (sodium salt)

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

Adipoyl-L-carnitine

| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
|--------------------|-----------|-------------|-------------------|--------------------------|---|
| | | | | | Not a hazardous substance or mixture according to Regulation (EC) |

| | | | | | |
|--|--|--|--|--|---------------|
| | | | | | No 1272/2008. |
|--|--|--|--|--|---------------|

| Ethyl 2-trans-4-cis-decadienoate | | | | | |
|---|-----------|-------------|---|---|--------------------------|
| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
| | | Warning | Causes skin irritation. Harmful 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 skin irritation occurs: Get medical advice/attention. Wear protective gloves. Take off contaminated clothing and wash it before reuse. | |

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

| trans-2-Dodecenoyl-L-carnitine | | | | | |
|---------------------------------------|-----------|-------------|-------------------|--------------------------|---|
| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
| | | | | | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. |

| Lauroyl-L-carnitine | | | | | |
|----------------------------|-----------|-------------|-------------------|--------------------------|---|
| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
| | | | | | Not a hazardous substance or mixture according to |

| | | | | | |
|--|--|--|--|--|----------------------------------|
| | | | | | Regulation (EC) No 1272/2008. |
|--|--|--|--|--|----------------------------------|

Ursodeoxycholic 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. | |

27-hydroxycholesterol

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

Ursocholic 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. |
|--|--|--|--|--|--|

Sodium tauroursodeoxycholate

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

Tauro-?-muricholic acid sodium salt

| 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-Carnitine 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. |

Isobutyryl-L-carnitine

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

Glutaryl-L-carnitine lithium salt

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

[(3R)-3-Hydroxydodecanoyl]-L-carnitine

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

Propionyl-L-carnitine

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

Palmitoyl-L-carnitine

| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
|--------------------|-----------|-------------|--|--|--------------------------|
| | | Warning | Causes skin irritation. Causes serious eye irritation. May cause | Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. IF INHALED: | |

| | | | | | |
|--|--|--|-------------------------|---|--|
| | | | respiratory irritation. | Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. Wash skin thoroughly after handling. If eye irritation persists: Get medical advice/ attention. Wear eye protection/ face protection. Wear protective gloves. | |
|--|--|--|-------------------------|---|--|

7?-Hydroxy Cholesterol

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

[(3R)-3-Hydroxyhexadecanoyl]-L-carnitine

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

cis,cis-9,12-Octadecadienoyl-L-carnitine

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

| Glycohyodeoxycholic 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. |

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

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

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

| Valeryl-L-carnitine | | | | | |
|----------------------------|-----------|-------------|-------------------|--------------------------|---|
| 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-Succinyl-L-carnitine lithium salt | | | | | |
|--|-----------|-------------|-------------------|--------------------------|---|
| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
| | | | | | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. |

| trans-2-Octenoyl-L-carnitine | | | | | |
|-------------------------------------|-----------|-------------|-------------------|--------------------------|---|
| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
| | | | | | 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 |
| | | | | | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. |

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

| trans-2-Tetradecenoyl-L-carnitine | | | | | |
|--|-----------|-------------|-------------------|--------------------------|---|
| Product identifier | Pictogram | Signal Word | Hazard Statements | Precautionary Statements | Supplemental information |
| | | | | | 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 |
| | | | | | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. |

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

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

| Glycodeoxycholic acid sodium salt | | | | | |
|--|-----------|-------------|--|--|--------------------------|
| 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 INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. Wash skin thoroughly after handling. If eye irritation persists: Get | |

| | | | | | |
|--|--|--|--|--|--|
| | | | | medical advice/ attention. Wear eye protection/ face protection. Wear protective gloves. | |
|--|--|--|--|--|--|

CHEMIKART