

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 8.4 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 : Phytochemical Metabolite Library Of

Standards

Product Number : PHYTOMLS 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

CHEMIKARI

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.

Acute toxicity, (Category 1) H300: Fatal if swallowed.

Acute toxicity, (Category 1) H330: Fatal if inhaled.

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| Acute toxicity, (Category 1) | H310: Fatal in contact with skin. |
|--|--|
| Skin corrosion, (Sub-category 1B) | H314: Causes severe skin burns and eye damage. |
| Serious eye damage, (Category 1) | H318: Causes serious eye damage. |
| Respiratory sensitization, (Category 1) | H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin sensitization, (Category 1) | H317: May cause an allergic skin reaction. |
| Germ cell mutagenicity, (Category 1A) | H340: May cause genetic defects. |
| Carcinogenicity, (Category 1B) | H350: May cause cancer. |
| Reproductive toxicity, (Category 1B) | H360Df: May damage the unborn child. Suspected of damaging fertility. |
| Specific target organ toxicity - single exposure, (Category 2), Central nervous system | H371: May cause damage to organs. |
| Specific target organ toxicity - single exposure, (Category 2), Lungs | H371: May cause damage to organs if inhaled. |
| Specific target organ toxicity - single exposure, (Category 3), Respiratory system | H335: May cause respiratory irritation. |
| Specific target organ toxicity - single exposure, (Category 3), Central nervous system | H336: May cause drowsiness or dizziness. |
| Specific target organ toxicity - repeated exposure, (Category 1) | H372: Causes damage to organs through prolonged or repeated exposure. |
| Aspiration hazard, (Category 1) | H304: May be fatal if swallowed and enters airways. |
| Short-term (acute) aquatic hazard, (Category 1) | H400: Very toxic to aquatic life. |
| Long-term (chronic) aquatic hazard, (Category 1) | H410: Very toxic to aquatic life with long lasting effects. |

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2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

| Signal Word | Danger |
|--|--|
| Hazard Statements H225 H300 + H310 + H330 H304 H314 H317 | Highly flammable liquid and vapor. Fatal if swallowed, in contact with skin or if inhaled. May be fatal if swallowed and enters airways. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 H336 H340 H350 H360Df H371 H371 H372 | May cause respiratory irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. May damage the unborn child. Suspected of damaging fertility. May cause damage to organs (Central nervous system). May cause damage to organs (Lungs) if inhaled. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. |
| Precautionary Statements P210 P280 P301 + P330 + P331 P303 + P361 + P353 P304 + P340 + P310 P305 + P351 + P338 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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. |
| Supplemental Hazard Statements | none |

Reduced Labeling (<= 125 ml)

Pictogram

| Signal Word | Danger |
|---------------------------|--|
| Hazard Statements H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H317 | May cause an allergic skin reaction. |

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| H340 | May cause genetic defects. |
|-----------------------------------|--|
| H350 | May cause cancer. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H304 H314 | May be fatal if swallowed and enters airways. Causes severe skin burns and eye damage. |
| H360Df | May damage the unborn child. Suspected of damaging fertility. |
| H300 + H310 + H330 | Fatal if swallowed, in contact with skin or if inhaled. |
| Precautionary Statements P280 | Wear protective gloves/ protective clothing/ eye protection/ face |
| 1 200 | protection. |
| P301 + P330 + P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| 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

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

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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.

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

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 stabilityRecommended 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

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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:

Phytochemical PHYTOMLS- PHYTOMLS-01 Flam. Liq. 3; Acute Tox. 2; Acute

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| Metabolite Library Of Standards Plate 1 (Ethanol Soluble) | 01-1EA | | Tox. 1; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Resp. Sens. 1; Skin Sens. 1; Muta. 2; Carc. 2; Repr. 1B; STOT SE 2; STOT SE 3; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1; H226, H300 + H330, H304, H311, H314, H317, H334, H335, H341, H351, H360Df, H371, H410 |
|---|---------------------|-------------|---|
| Phytochemical Metabolite Library Of Standards Plate 2 (Ethanol Soluble) | PHYTOMLS- 02-1EA | PHYTOMLS-02 | Flam. Liq. 3; Acute Tox. 2; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; Muta. 2; Carc. 2; Repr. 2; STOT SE 2; STOT SE 3; STOT RE 1; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1; H226, H300 + H310 + H330, H304, H314, H317, H335, H341, H351, H361f, H371, H372, H410 |
| Phytochemical Metabolite Library Of Standards Plate 3 (Water Soluble) | PHYTOMLS- 03-1EA | PHYTOMLS-03 | Flam. Liq. 2; Acute Tox. 2; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; Muta. 1A; Carc. 1B; Repr. 2; STOT SE 3; STOT RE 1; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H225, H300 + H330, H311, H314, H317, H335, H340, H350, H361f, H372, H373, H373, H410 |
| Phytochemical Metabolite Library Of Standards Plate 4 (Water And Methanol Soluble) | PHYTOMLS- 04-1EA | PHYTOMLS-04 | Flam. Liq. 2; Acute Tox. 1; Acute Tox. 2; Acute Tox. 1; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; Carc. 1B; Repr. 2; STOT SE 3; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 2; H225, H300 + H310 + H330, H314, H317, H335, H336, H350, H361f, H372, H410 |

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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 mi | xture | Classification procedure: |
|--------------------------|--------|---------------------------|
| Flam. Liq.2 | H225 | Calculation method |
| Acute Tox.1 | H300 | Calculation method |
| Acute Tox.1 | H330 | Calculation method |
| Acute Tox.1 | H310 | Calculation method |
| Skin Corr.1B | H314 | Calculation method |
| Eye Dam.1 | H318 | Calculation method |
| Resp. Sens.1 | H334 | Calculation method |
| Skin Sens.1 | H317 | Calculation method |
| Muta.1A | H340 | Calculation method |
| Carc.1B | H350 | Calculation method |
| Repr.1B | H360Df | Calculation method |
| | | |

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| STOT SE2 | H371 | Calculation method |
|------------------|------|--------------------|
| STOT SE2 | H371 | Calculation method |
| STOT SE3 | H335 | Calculation method |
| STOT SE3 | H336 | Calculation method |
| STOT RE1 | H372 | Calculation method |
| Asp. Tox.1 | H304 | Calculation method |
| Aquatic Acute1 | H400 | Calculation method |
| Aquatic Chronic1 | H410 | 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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Kit Components:

| Phytochemica | l Metabolite | Library Of | Standards Plate 1 | (Ethanol Soluble |) |
|--------------|--------------|------------|---|--|--------------|
| Product | Pictogram | Signal | Hazard | Precautionary | Supplemental |
| identifier | | Word | Statements | Statements | information |
| Product | | Signal | Hazard Statements Flammable liquid and vapor. Fatal if swallowed or if inhaled. May be fatal if swallowed and enters airways. Toxic in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing | Precautionary Statements Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF ON SKIN (or hair): Take off immediately all | Supplemental |
| | | | allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory | protective clothing/ eye protection/ face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: | |
| | | | irritation. Suspected of causing genetic defects. Suspected of causing cancer. May damage the unborn child. Suspected of damaging fertility. May cause damage to organs (Lungs) | 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 | |

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| Very toxic to aquatic life with long lasting effects. | |
|---|--|
|---|--|

| Product | Pictogram | Signal | Standards Plate 2 Hazard | Precautionary | Supplemental |
|-------------|-----------|--------|--------------------------|------------------|--------------|
| dentifier | riccogram | Word | Statements | Statements | information |
| PHYTOMLS- | | Danger | Flammable | Keep away | |
| 02-1EA - | | | liquid and vapor. | from heat, hot | |
| PHYTOMLS-02 | | | Fatal if | surfaces, | |
| TITTOMES 02 | | | swallowed, in | sparks, open | |
| | | | contact with skin | flames and | |
| | | | or if inhaled. | other ignition | |
| | | | May be fatal if | sources. No | |
| | | | swallowed and | smoking. IF | |
| | | | enters airways. | SWALLOWED: | |
| | | | Causes severe | Rinse mouth. Do | |
| | | | skin burns and | NOT induce | |
| | | | eye damage. | vomiting. Wear | |
| | | | May cause an | protective | |
| | | | allergic skin | gloves/ | |
| | | | reaction. | protective | |
| | | | May cause | clothing/ eye | |
| | | | respiratory | protection/ face | |
| | | | irritation. | protection. IF | |
| | | | Suspected of | ON SKIN (or | |
| | | | causing genetic | hair): Take off | |
| | | | defects. | immediately all | |
| | 7 | | Suspected of | contaminated | |
| | | | causing cancer. | clothing. Rinse | |
| | | | Suspected of | skin with water. | |
| | | | damaging | IF INHALED: | |
| | | | fertility. | Remove person | |
| | | | May cause | to fresh air and | |
| | | | damage to | keep | |
| | | | organs (Central | comfortable for | |
| | | | nervous | breathing. | |
| | | | system). | Immediately call | |
| | | | Causes damage | a POISON | |
| | | | to organs | CENTER/ doctor. | |
| | | | through | IF IN EYES: | |
| | | | prolonged or | Rinse cautiously | |
| | | | repeated | with water for | |
| | | | exposure if | several minutes. | |
| | | | swallowed. | Remove contact | |
| | | | Very toxic to | lenses, if | |
| | | | aquatic life with | present and | |
| | | | long lasting | easy to do. | |
| | | | effects. | Continue | |

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| | | | |
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| Phytochemica | l Metabolite | Library Of S | Standards Plate 3 | (Water Soluble) | |
|--------------|--------------|--------------|-----------------------------|-------------------------------|--------------|
| Product | Pictogram | Signal | Hazard | Precautionary | Supplemental |
| identifier | | Word | Statements | Statements | information |
| PHYTOMLS- | | Danger | Highly | Keep away | |
| 03-1EA - | | | flammable liquid | from heat, hot | |
| PHYTOMLS-03 | | | and vapor. | surfaces, | |
| | | | Fatal if | sparks, open | |
| | | | swallowed or if | flames and | |
| | | | inhaled. | other ignition | |
| | | | Toxic in contact | sources. No | |
| | | | with skin. | smoking. IF ON | |
| | | | Causes severe | SKIN (or hair): | |
| | | | skin burns and | Take off | |
| | | | eye damage. | immediately all | |
| | | | May cause an | contaminated | |
| | | | allergic skin | clothing. Rinse | |
| | | | reaction. | skin with water. | |
| | | | May cause | Avoid release to | |
| | | | respiratory | the | |
| | | | irritation. | environment. IF | |
| | | | May cause | INHALED: | |
| | | | genetic defects. | Remove person | |
| | | | May cause | to fresh air and | |
| | | | cancer. | keep | |
| | | | Suspected of | comfortable for | |
| | | | damaging | breathing. | |
| | | | fertility. | Immediately call | |
| | | | Causes damage | a POISON | |
| | | | to organs | CENTER/ doctor. | |
| | | | (Peripheral | Wear protective | |
| | | | nervous system) | gloves/ | |
| | | | through | protective | |
| | | | prolonged or | clothing/ eye | |
| | | | repeated | protection/ face | |
| | | | exposure if swallowed. | protection. IF IN EYES: Rinse | |
| | | | | | |
| | | | May cause | cautiously with water for | |
| | | | damage to | several minutes. | |
| | | | organs through prolonged or | Remove contact | |
| | | | | | |
| | | | repeated exposure. | lenses, if present and | |
| | | | May cause | easy to do. | |
| | | | damage to | Continue | |
| | | | organs (Blood, | rinsing. | |
| | | | Liver, Kidney) | inising. | |
| | | | through | | |
| | | | prolonged or | | |
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| Very toxic to aquatic life with long lasting effects. |
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|---|

| | | | Standards Plate 4 | | |
|-------------|-----------|--------|-------------------|-------------------|--------------|
| Product | Pictogram | Signal | Hazard | Precautionary | Supplemental |
| identifier | | Word | Statements | Statements | information |
| PHYTOMLS- | | Danger | Highly | Keep away | |
| 04-1EA - | | | flammable liquid | from heat, hot | |
| PHYTOMLS-04 | | | and vapor. | surfaces, | |
| | | | Fatal if | sparks, open | |
| | | | swallowed, in | flames and | |
| | | | contact with skin | other ignition | |
| | | | or if inhaled. | sources. No | |
| | | | Causes severe | smoking. IF ON | |
| | | | skin burns and | SKIN (or hair): | |
| | | | eye damage. | Take off | |
| | | | May cause an | immediately all | |
| | | | allergic skin | contaminated | |
| | | | reaction. | clothing. Rinse | |
| | | | May cause | skin with water. | |
| | | | respiratory | Avoid release to | |
| | | | irritation. | the | |
| | | | May cause | environment. IF | |
| | | | drowsiness or | INHALED: | |
| | | | dizziness. | Remove person | |
| | | | May cause | to fresh air and | |
| | | | cancer. | keep | |
| | | | Suspected of | comfortable for | |
| | | | damaging | breathing. | |
| | | | fertility. | Immediately call | |
| | | | Causes damage | a POISON | |
| | | | to organs | CENTER/ doctor. | |
| | | | through | Wear protective | |
| | | | prolonged or | gloves/ | |
| | | | repeated | protective | |
| | | | exposure. | clothing/ eye | |
| | | | Very toxic to | protection/ face | |
| | | | aquatic life with | protection. IF IN | |
| | | | long lasting | EYES: Rinse | |
| | | | effects. | cautiously with | |
| | | | | water for | |
| | | | | several minutes. | |
| | | | | Remove contact | |
| | | | | lenses, if | |
| | | | | present and | |
| | | | | easy to do. | |

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| | | Continue | |
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| | | rinsina. | |



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