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Material safety data sheet

According to EU Regulation 1907/2006 in the current version **EsseSol, Mineral Filter**

1. Identification of the substance/mixture and company.

Trade name: EsseSol, Mineral Filter

Hydrophobically coated titanium dioxide

INCI Titanium dioxide, Aqua, Polyglyceryl-2 caprate, Sucrose stearate, Simmondsia

chinensis (Jojoba) seed oil, Stearic acid, Alumina, Glyceryl caprylate, Squalane

CAS No.: EINESCS No.: REACH pre-registration No.: -

Utilization: Raw material for cosmetic or professional use

Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania

Tel/Fax: +40259-436.755, www.elemental.eu

Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de

Sănătate Publică București.

International emergency number: +49 180 2273-112

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

Use of the Sub stance/Mixture: Sunscreen ingredient

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

H317: May cause an allergic skin reaction.

Skin sensitisation, Category 1

Classification (67/548/EEC, 1999/45/EC)

Sensitising

R43: May cause sensitisation by skin contact.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word: Warning

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves.

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Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label: Polyglyceryl-2 Caprate

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.

May irritate eyes.

May irritate skin.

Ingestion may cause irritation to mucous membranes.

May cause irritation of respiratory tract.

3. Declaration of ingredients.

3.1 Substances

Not applicable

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Polyglyceryl-2 Caprate	74504-65-7	Xi; R36/38-R43	2; H315 2; H319 Skin Sens. 1; H317	>= 5 - < 10

For explanation of abbreviations see section 16.

4. First aid measures

4.1 Description of first aid measures

If inhaled: If breathed in, move person into fresh air. If symptoms persist, call a physician.

In case of skin contact: Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact: Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.

If swallowed: If symptoms persist, call a physician.



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4.2 Most important symptoms and effects, both acute and delayed

Symptoms: None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: None known.

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting: Do not use a solid water stream as it may scatter and spread fire. Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Further information: Standard procedure for chemical fires. Use water spray to cool unopened containers.

Accidental release measures.

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions: Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

6.4 Reference to other sections

None.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Handle in accordance with good industrial hygiene and safety practice. Advice on protection against fire and explosion: Normal measures for preventive fire protection. Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Store in original container. Keep container tightly closed in a dry and well-ventilated place.



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Advice on common storage: No special restrictions on storage with other products. Other data: Stable under recommended storage conditions.

7.3 Specific end use(s)

Specific use(s): Sunscreen ingredient

Exposure controls / personal protection.

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis			
Titanium dioxide	13463-67-7	TWA (inhalable dust)	10 mg/m ³	GB EH40			
Further information	airborne dust methods descrespirable an includes dust mg.m-3 8-ho means that a Some dusts happropriate behavior, de respiratory sy the particle. Hand 'respiratory trespiratory trexchange reg MDHS14/3. Velevant limit	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behavior, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of air borne material that enters the nose and mouth during breathing and is there fore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used					
-	-	TWA (Respirable dust)	4 mg/m ³	GB EH40			
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of						



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1344-28-1	- TWA (inh	alable dust)	10 mg/m ³	GB EH40			
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of air borne material that enters the nose and mouth during breathing and is there fore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.						
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MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

8.2 Exposure controls

Personal protective equipment

Eye protection: Safety glasses.

Hand protection: For prolonged or repeated contact use protective gloves.

Skin and body protection: impervious clothing.

Respiratory protection: No personal respiratory protective equipment normally required.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: liquid Color: white

10. Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

Hazardous reactions: Stable under recommended storage conditions.

10.4 Conditions to avoid

Conditions to avoid: None known.

10.5 Incompatible materials

Materials to avoid: Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products: No data available

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity: LD50 (Rat): > 25,000 mg/kg Remarks: Information refers to the main component.

Acute inhalation toxicity: No data available

Acute dermal toxicity: LD50 (Rabbit): > 10,000 mg/kg Remarks: Information refers to the main component.

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Skin corrosion/irritation

Species: Humans Exposure time: 48 h Method: Patch Test 48 Hrs. Result: No skin irritation

Remarks: The toxicological data has been taken from products of similar composition.

Species: Rabbit

Result: Unlikely to cause skin irritation.

Remarks: Information refers to the main component.

Serious eye damage/eye irritation

Species: Rabbit

Result: No eye irritation

Remarks: Information refers to the main component.

Respiratory or skin sensitisation

Species: Humans

Result: Patch test on human volunteers did not demonstrate sensitisation properties.

Remarks: Information refers to the main component.

Germ cell mutagenicity

Genotoxicity in vitro: Remarks: Tests on bacterial or mammalian cell cultures did

not show mutagenic effects.

Information given is based on data on the components.

Carcinogenicity

Test substance: No data available

Reproductive toxicity

Effects on fertility:

Test substance: No data available

STOT - single exposure

Assessment: No data available

STOT - repeated exposure

Assessment: No data available

Repeated dose toxicity

Application Route: Inhalation

Remarks: No adverse effect has been observed in chronic toxicity tests.

Information given is based on data on the components.

Aspiration toxicity

No data available

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Further information

Remarks: Information taken from reference works and the literature.

12. Ecological information

12.1 Toxicity

Toxicity to fish: LC0 (Fish): estimated > 100 mg/l

Exposure time: 48 h

Remarks: Information taken from reference works and the literature.

Toxicity to bacteria: ECO (Bacteria): estimated > 5,000 mg/l

Exposure time: 48 h

Remarks: Information taken from reference works and the literature.

12.2 Persistence and degradability

Biodegradability: Remarks: No data available

12.3 Bioaccumulative potential

Bioaccumulation: Remarks: No data available

12.4 Mobility in soil

Distribution among environmental compartments: Remarks: No data available

12.5 Results of PBT and vPvB assessment

Assessment: 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.

12.6 Other adverse effects

Environmental fate and pathways: None.

Additional ecological information: Remarks: No data available

Disposal considerations.

13.1 Waste treatment methods

Product: Dispose of in accordance with local regulations.

Contaminated packaging: Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 Proper shipping name

Not regulated as a dangerous good

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14.3 Transport hazard class

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks: Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied

15. Regulatory information

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

The components of this product are reported in the following inventories:

TSCA: This product either contains a chemical substance that is not listed on the public TSCA Inventory or the TSCA Inventory status of the product has not been evaluated. For FDA uses only.

REACH: On the inventory, or in compliance with the inventory

DSL: This product contains one or several components that are not on the Canadian DSL nor NDSL.

IECSC: On the inventory, or in compliance with the inventory

For explanation of abbreviations see section 16.

15.2 Chemical Safety Assessment

This information is not available.

16. Additional information

16.1 Full text of R-Phrases and Full text of H-Statements:

R36/38: Irritating to eyes and skin.

R43: May cause sensitisation by skin contact.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

16.2 Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

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IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods. INCI: International Nomenclature of Cosmetic Ingredients.

LTE: Long-term exposure.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.

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