

Trade name: VarseoWax Model (REF 41140 & 41141)

Product no.: REF 41140 & 41141

Current version : 1.0.0, issued: 13.09.2022

Replaced version: -, issued: -

Region: USA

SECTION 1: Identification

1.1 Product identifier

Trade name

VarseoWax Model (REF 41140 & 41141)

1.2 Recommended use of the chemical and restrictions on use

Recommended use of the chemical and restrictions on use

Resin for 3D printing of dental models

Restrictions on use

No data available.

1.3 Details of the supplier of the safety data sheet

Address

BEGO Bremer Goldschlägerei
Wilh. Herbst GmbH & Co. KG
Wilhelm-Herbst-Str. 1
28359 Bremen

Telephone no. +49/ 421/ 2028 – 0
Fax no. +49/ 421/ 2028 – 115
e-mail msds@bego.com

1.4 Emergency phone number

BEGO USA
1-800-342-2346

SECTION 2: Hazard(s) identification

2.1 Classification of the chemical

Classification of the chemical in accordance with paragraph (d) of 29 CFR § 1910.1200 "Hazard Communication"

Carcinogenicity - Category 2

Eye Irritation - Category 2A

Reproductive Toxicity - Category 1B

Skin Corrosion / Irritation - Category 2

Skin sensitization - Category 1A

Specific Target Organ Toxicity - Single Exposure - respiratory tract irritation - Category 3

2.2 Label elements

Pictogram(s)



Signal word

Danger

Hazard Statement(s)

Health hazards

Causes skin irritation

May cause an allergic skin reaction

Causes serious eye irritation

May cause respiratory irritation

Suspected of causing cancer if inhaled.

May damage fertility or the unborn child.

Precautionary Statement(s)

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| | |
|------------|--|
| Prevention | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas. Wash exposed skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. |
| Response | Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water and soap. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. |
| Storage | Store in a well-ventilated place. Keep container tightly closed. Store locked up. |
| Disposal | Dispose of contents/container to a facility in accordance with local and national regulations. |

2.3 Labelling information

No data available

2.4 Hazards not otherwise classified (HNOC)

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

| No | Substance name | Concentration | % |
|----|--|---------------|--------|
| | CAS no. | | |
| 1 | Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid 41637-38-1 | < 100.00 | %-b.w. |
| 2 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8 | < 2.50 | %-b.w. |
| 3 | titanium dioxide 13463-67-7 | < 0.50 | %-b.w. |
| 4 | Hydrocarbons, C9-unsaturated, polymerized 71302-83-5 | < 0.50 | %-b.w. |

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General information

If the patient is likely to become unconscious, place and transport in stable sideways position. In case of allergic symptoms, especially respiratory tract related, seek medical help immediately. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

After skin contact

In case of contact with skin wash off immediately with plenty of water. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). In case of irritation consult an ophthalmologist.

After ingestion

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Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide; Extinguishing powder; Water spray jet; Alcohol-resistant foam

Unsuitable extinguishing media

Full water jet

5.2 Specific hazards arising from the chemical

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); Phosphorus oxides

5.3 Special protective equipment and precautions for fire-fighters

Use self-contained breathing apparatus. Wear full protective suit. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Do not inhale vapours/aerosols.

For emergency responders

Personal protective equipment (PPE) - see Section 8.

6.2 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in suitable container for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Risks inherent to handling the product must be minimised by applying appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

General protective and hygiene measures

Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Provide eye wash fountain in work area. Do not inhale vapours. Hold emergency shower available.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

Requirements for storage rooms and vessels

Keep only in the original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Incompatible products

Do not store together with: Oxidizing agents

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limit(s)

| No | Substance name | CAS no. |
|--|------------------|---------------------------|
| 1 | titanium dioxide | 13463-67-7 |
| OSHA Permissible Exposure Limits (PELS) | | |
| Titanium dioxide Total dust | | |
| | TWA | 15 mg/m ³ |
| ACGIH Threshold Limit Values | | |
| Titanium dioxide Nanoscale particles | | |
| | TWA | 0,2 (R) mg/m ³ |
| | Remarks | A3 |
| ACGIH Threshold Limit Values | | |
| Titanium dioxide Finescale particles | | |
| | TWA | 2,5 (R) mg/m ³ |
| | Remarks | A3 |

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the PEL (=Permissible Exposure Limit), suitable respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses with side protection shield

Hand protection

Sufficient protection is given wearing suitable protective gloves in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other protection measures

Chemical-resistant work clothes.

SECTION 9: Physical and chemical properties

| | |
|--------------------------------------|-------------------|
| Form/Color | gray |
| Odor | No data available |
| Odor threshold | No data available |
| pH value | No data available |
| Boiling point / boiling range | No data available |
| Melting point / melting range | No data available |

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| | | | |
|--|---|----------------|-------------------|
| Decomposition point / decomposition range | | | |
| No data available | | | |
| Flash point | | | |
| No data available | | | |
| Auto-ignition temperature | | | |
| No data available | | | |
| Oxidising properties | | | |
| No data available | | | |
| Explosive properties | | | |
| No data available | | | |
| Flammability | | | |
| No data available | | | |
| Lower flammability or explosive limits | | | |
| No data available | | | |
| Upper flammability or explosive limits | | | |
| No data available | | | |
| Vapor pressure | | | |
| No data available | | | |
| Vapor density | | | |
| No data available | | | |
| Evaporation rate | | | |
| No data available | | | |
| Relative density | | | |
| No data available | | | |
| Density | | | |
| Value | 1.1 | - 1.2 | g/cm ³ |
| Reference temperature | | 21 | °C |
| Source | supplier | | |
| Solubility in water | | | |
| No data available | | | |
| Solubility(ies) | | | |
| No data available | | | |
| Partition coefficient: n-octanol/water | | | |
| No | Substance name | CAS no. | EC no. |
| 1 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 75980-60-8 | |
| with reference to | | pH: 6.4 | |
| Viscosity | | | |
| No data available | | | |
| Other information | | | |
| Other information | | | |
| No data available. | | | |

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions(See section 7).

10.3 Possibility of hazardous reactions

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None, when used as directed.

10.4 Conditions to avoid

Heat, open flames and other sources of ignition. Protect from sun.

10.5 Incompatible materials

strong oxidising agents

10.6 Hazardous decomposition products

No hazardous decomposition products known. In case of fire: see section 5.

SECTION 11: Toxicological information

Information on toxicological effects

| Acute oral toxicity | | | |
|---------------------|---|------------|------------------|
| No | Substance name | CAS no. | |
| 1 | Hydrocarbons, C9-unsaturated, polymerized | 71302-83-5 | |
| LD50 | | 2000 | mg/kg bodyweight |
| Species | rat | | |
| Method | OECD 423 | | |
| Source | ECHA | | |

| Acute dermal toxicity | | | |
|-----------------------|---|------------|------------------|
| No | Substance name | CAS no. | |
| 1 | Hydrocarbons, C9-unsaturated, polymerized | 71302-83-5 | |
| LD50 | | 2000 | mg/kg bodyweight |
| Species | rabbit | | |
| Method | OECD 402 | | |
| Source | ECHA | | |

| Acute inhalational toxicity | | | |
|-----------------------------|---|------------|------|
| No | Substance name | CAS no. | |
| 1 | Hydrocarbons, C9-unsaturated, polymerized | 71302-83-5 | |
| LC50 | | 5.14 | mg/l |
| Duration of exposure | | 4 | h |
| State of aggregation | Dust/mist | | |
| Species | rat | | |
| Method | OECD 403 | | |
| Source | ECHA | | |

| Skin corrosion/irritation | |
|---------------------------|--|
| No data available | |

| Serious eye damage/irritation | |
|-------------------------------|--|
| No data available | |

| Respiratory or skin sensitisation | | | |
|-----------------------------------|---|------------|--|
| No | Substance name | CAS no. | |
| 1 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 75980-60-8 | |
| Route of exposure | Skin | | |
| Species | mouse | | |
| Method | OECD 429 | | |
| Source | ECHA | | |
| Evaluation | sensitizing | | |
| 2 | Hydrocarbons, C9-unsaturated, polymerized | 71302-83-5 | |
| Route of exposure | Skin | | |
| Species | mouse | | |
| Method | OECD 429 | | |
| Source | ECHA | | |
| Evaluation | strongly sensitizing | | |

| Germ cell mutagenicity | |
|------------------------|--|
| No data available | |

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| Reproduction toxicity | |
|---------------------------|--|
| No | Substance name CAS no. |
| 1 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8 |
| Route of exposure | oral |
| Evaluation/classification | May damage fertility. |
| Method | OECD 421 |
| Source | ECHA |
| Species | rats (male/female) |

| Carcinogenicity |
|-------------------|
| No data available |

| NTP Report on Carcinogens (RoC) |
|---|
| According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed "known" (to be a human carcinogen) or "RAHC" (reasonably anticipated to be a human carcinogen). |

| OSHA Standards listing cancer as a health effect (Table VII.6.2) |
|--|
| According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed as carcinogenic. |

| IARC Monographs on the Evaluation of Carcinogenic Risks to Humans | | | |
|---|------------------|------------|-------|
| The product contains following substance(s) classified by the IARC Monographs | | | |
| No | Substance name | CAS no. | Group |
| 1 | titanium dioxide | 13463-67-7 | 2B |

| STOT - single exposure |
|------------------------|
| No data available |

| STOT - repeated exposure |
|--------------------------|
| No data available |

| Aspiration hazard |
|-------------------|
| No data available |

SECTION 12: Ecological information

12.1 Toxicity

| Toxicity to fish (acute) | | | |
|--------------------------|---|------------|------|
| No | Substance name | CAS no. | |
| 1 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 75980-60-8 | |
| LC50 | | 1.4 | mg/l |
| Duration of exposure | | 96 | h |
| Species | Cyprinus carpio | | |
| Method | OECD 203 | | |
| Source | ECHA | | |
| 2 | Hydrocarbons, C9-unsaturated, polymerized | 71302-83-5 | |
| LC50 | | 25.8 | mg/l |
| Duration of exposure | | 96 | h |
| Species | Danio rerio | | |
| Method | OECD 203 | | |
| Source | ECHA | | |

| Toxicity to fish (chronic) |
|----------------------------|
| No data available |

| Toxicity to Daphnia (acute) | | | |
|-----------------------------|---|------------|------|
| No | Substance name | CAS no. | |
| 1 | Hydrocarbons, C9-unsaturated, polymerized | 71302-83-5 | |
| EC50 | | 54 | mg/l |
| Duration of exposure | | 48 | h |
| Species | Daphnia magna | | |
| Method | OECD 202 | | |

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| | |
|--------|------|
| Source | ECHA |
|--------|------|

| Toxicity to Daphnia (chronic) | |
|-------------------------------|--|
| No data available | |

| Toxicity to algae (acute) | | | |
|---------------------------|---|------------|------|
| No | Substance name | CAS no. | |
| 1 | Hydrocarbons, C9-unsaturated, polymerized | 71302-83-5 | |
| EL50 | > | 100 | mg/l |
| Duration of exposure | | 72 | h |
| Species | Desmodesmus subspicatus | | |
| Method | OECD 201 | | |
| Source | ECHA | | |

| Toxicity to algae (chronic) | |
|-----------------------------|--|
| No data available | |

12.2 Persistence and degradability

| Biodegradability | | | |
|------------------|---|------------|--------|
| No | Substance name | CAS no. | |
| 1 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 75980-60-8 | |
| Value | | 0 | % |
| Duration | | 28 | day(s) |
| Method | OECD 301 F | | |
| Source | ECHA | | |
| Evaluation | The product is not biodegradable. | | |

12.3 Bioaccumulative potential

| Partition coefficient: n-octanol/water | | |
|--|---|------------|
| No | Substance name | CAS no. |
| 1 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 75980-60-8 |
| with reference to | | pH: 6.4 |

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

No data available.

12.6 Other information

| Other information |
|--|
| Do not discharge product unmonitored into the environment. |

SECTION 13: Disposal considerations

13.1 Disposal considerations

Product

Dispose in accordance with federal, state and local regulations.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in accordance with federal, state and local regulations.

SECTION 14: Transport information

14.1 US DOT (Department of Transportation)

The product is not subject to DOT regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

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14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, pls. see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

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

Not relevant

SECTION 15: Regulatory information

15.1 US Federal Regulations

Toxic Substances Control Act (TSCA)

According to the data available and/or specifications supplied by upstream suppliers, all components of this product are on the TSCA Inventory or are exempted from notification requirements.

The following substances have EPA regulatory flags in the TSCA Inventory:

| No | Substance name | CAS no. | EPA TSCA Regulatory Flags |
|----|---|------------|---------------------------|
| 1 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 75980-60-8 | PMN |
| 2 | Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid | 41637-38-1 | XU |
| 3 | Hydrocarbons, C9-unsaturated, polymerized | 71302-83-5 | XU |

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being subject to Table 302.4 "List of Hazardous Substances and Reportable Quantities".

Clean Air Act (CAA): Hazardous Air Pollutants (HAPS)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being "Hazardous Air Pollutants".

Clean Water Act (CWA) Section 307 (Toxic Pollutants) and Section 311 (Hazardous Substances)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered to be "Hazardous Substances".

EPCRA SARA Section 313, Toxic Chemical Release Inventory

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being subject to "SARA Reporting".

Emergency Planning & Community Right-to-Know Act (EPCRA) - Sections 302 and 304

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being subject to reporting requirements.

Clean Air Act (CAA) - Section 602 Ozone depleting substances

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed as ozone depleting substance.

15.2 US State Regulations

Pennsylvania State Right to Know Hazardous Substance List

The product contains following substance(s) that are considered to be "Hazardous Substances".

| No | Substance name | CAS no. |
|----|------------------|------------|
| 1 | titanium dioxide | 13463-67-7 |

New Jersey State Right to Know Hazardous Substance List

The product contains following substance(s) that are considered to be "Hazardous Substances".

| No | Substance name | CAS no. |
|----|------------------|------------|
| 1 | titanium dioxide | 13463-67-7 |

Massachusetts State Right to Know Hazardous Substance List

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According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered to be "Hazardous Substances".

California Code of Regulations Title 8 §339, Hazardous Substances List

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered to be "Hazardous Substances".

Right to Know - California State - Proposition 65

The product contains following substance(s) that are considered to be "Hazardous Substances".

| No | Substance name | CAS no. | type of toxicity |
|----|------------------|------------|------------------|
| 1 | titanium dioxide | 13463-67-7 | cancer |

SECTION 16: Other information, including date of preparation or last revision

16.1 Other information

No data available.

16.2 Date of preparation/revision of the SDS

| | | |
|------------------|-------|------------|
| Current version | 1.0.0 | 13.09.2022 |
| Replaced version | - | - |

16.3 Department issuing safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

16.4 Conclusions

This information is based on our present knowledge and experience.
 The safety data sheet describes products with a view to safety requirements.
 It does not, however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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Prod-ID 772977

16.5 Key / Legend

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ACGIH - American Conference of Governmental Industrial Hygienists
ATE – Acute Toxicity Estimate
BOD - Biochemical Oxygen Demand
CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania
CAS - Chemical Abstracts Service
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
CFR - Code of Federal Regulations (US)
CLP - Classification, Labelling, and Packaging
DOT - Department of Transportation Commission
ECHA – European Chemicals Agency
EC / EL – Effective Concentration / Effective Loading
EPA - Environmental Protection Agency
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC – Intermediate Bulk Container
ICAO - International Civil Aviation Organization
IDL - Ingredient Disclosure List
IDLH - Immediately Dangerous to Life and Health
IMDG - International Maritime Dangerous Goods
IUCLID - International Uniform Chemical Information Database
Kow - Octanol/water partition coefficient
LD/LC - Lethal Dose/ Lethal Concentration
MARPOL – Marine Pollution
MEL - Maximum Exposure Limits
NFPA - National Fire Protection Agency
NIOSH - National Institute for Occupational Safety and Health
NJTSR - New Jersey Trade Secret Registry
NOEL/NOEC – No Observed Effect Level / No Observed Effect Concentration
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PEL- Permissible Exposure Limit
RCRA - Resource Conservation and Recovery Act
SARA - Superfund Amendments and Reauthorization Act
STEL - Short-term Exposure Limit
STOT – Specific Target Organ Toxicity
TDG - Transportation of Dangerous Goods
TLV - Threshold Limit Value
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
UN/NA - United Nations /North American
US - United States
VLE - Exposure Limit Value (Mexico)
VOC – Volatile Organic Compounds