

Trade name: Aurofilm (REF 52015, REF 52019)

Current version : 4.1.0, issued: 10.04.2019

Replaced version: 4.0.1, issued: 02.12.2015

Region: GB

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name

Aurofilm (REF 52015, REF 52019)

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

Relevant identified uses of the substance or mixture

Manufacturing of dental prosthesis in a dental laboratory

Uses advised against

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

Information provided by / telephone

Research & Development Department - Materials, alloys and ceramics; +49/ 421/ 2028 – 130 (Chief Development Officer alloys)

Advice on Safety Data Sheet

msds@bego.com

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Eye Dam. 1; H318

Flam. Liq. 3; H226

STOT SE 3; H336

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



GHS02



GHS05



GHS07

Signal word

Danger

Hazardous component(s) to be indicated on label:

propan-1-ol

Hazard statement(s)

H226

Flammable liquid and vapour.

H318

Causes serious eye damage.

H336

May cause drowsiness or dizziness.

Hazard statements (EU)

EUH208

Contains TRIISOBUTYLPHOSPHAT. May produce an allergic reaction.

Trade name: Aurofilm (REF 52015, REF 52019)

Current version : 4.1.0, issued: 10.04.2019

Replaced version: 4.0.1, issued: 02.12.2015

Region: GB

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards

PBT assessment
No data available.

vPvB assessment
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 | | Additional information | |
|----|---|---|------------------------|--------|
| | CAS / EC / Index / REACH no | Classification (EC) 1272/2008 (CLP) | Concentration | % |
| 1 | propan-1-ol | | | |
| | 71-23-8 200-746-9 603-003-00-0 - | Eye Dam. 1; H318 Flam. Liq. 2; H225 STOT SE 3; H336 | > 70.00 - < 90.00 | %-b.w. |
| 2 | TRIISOBUTYLPHOSPHAT | | | |
| | 126-71-6 204-798-3 - - | Skin Sens. 1; H317 | > 0.50 - < 1.00 | %-b.w. |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Call a doctor immediately.

After skin contact

Wash off immediately with soap and water.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart and seek medical advice.

After ingestion

Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person.

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.

Trade name: Aurofilm (REF 52015, REF 52019)

Current version : 4.1.0, issued: 10.04.2019

Replaced version: 4.0.1, issued: 02.12.2015

Region: GB

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide and carbon dioxide; Formaldehyde

5.3 Advice for firefighters

Use self-contained breathing apparatus. Suppress gases/vapours/mists with water spray jet. Wear protective clothing. Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away sources of ignition. Refer to protective measures listed in sections 7 and 8.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Ensure adequate ventilation. Pick up rest with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). When picked up, treat material as prescribed under heading "Disposal considerations".

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as it is possible by the state of the art.

General protective and hygiene measures

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

Advice on protection against fire and explosion

Take precautionary measures against electrostatic loading (earthing necessary during loading operations). Vapours can form an explosive mixture with air. 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 closed and kept upright to prevent leakage.

Advice on storage assembly

Do not store together with: oxidizing substances; explosive substances; spontaneously combusting substances; flammable toxic substances; inflammatory substances; oxidizing agents

Trade name: Aurofilm (REF 52015, REF 52019)

Current version : 4.1.0, issued: 10.04.2019

Replaced version: 4.0.1, issued: 02.12.2015

Region: GB

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

| No | Substance name | CAS no. | EC no. |
|---|---|---------|---------------------------|
| 1 | propan-1-ol | 71-23-8 | 200-746-9 |
| List of approved workplace exposure limits (WELs) / EH40 | | | |
| Propan-1-ol | | | |
| | WEL short-term (15 min reference period) | 625 | mg/m ³ 250 ppm |
| | WEL long-term (8-hr TWA reference period) | 500 | mg/m ³ 200 ppm |
| | Comments | Sk | |

8.2 Exposure controls

Appropriate engineering controls

No data available.

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 (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves 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

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|------------------------|-----|
| Form/Colour | |
| liquid | |
| pink | |
| Odour | |
| alcohol-like | |
| Odour threshold | |
| No data available | |
| pH value | |
| Value | 6.6 |

Trade name: Aurofilm (REF 52015, REF 52019)

Current version : 4.1.0, issued: 10.04.2019

Replaced version: 4.0.1, issued: 02.12.2015

Region: GB

| | | |
|--|---|--------------------|
| Boiling point / boiling range | | |
| No data available | | |
| Melting point / melting range | | |
| No data available | | |
| Decomposition point / decomposition range | | |
| No data available | | |
| Flash point | | |
| Value | 30 | °C |
| Auto-ignition temperature | | |
| No data available | | |
| Oxidising properties | | |
| No data available | | |
| Explosive properties | | |
| No data available | | |
| Flammability (solid, gas) | | |
| No data available | | |
| Lower flammability or explosive limits | | |
| No data available | | |
| Upper flammability or explosive limits | | |
| No data available | | |
| Vapour pressure | | |
| No data available | | |
| Vapour density | | |
| No data available | | |
| Evaporation rate | | |
| No data available | | |
| Relative density | | |
| No data available | | |
| Density | | |
| Value | 0.828 | g/cm ³ |
| Reference temperature | 20 | °C |
| Solubility in water | | |
| No data available | | |
| Solubility(ies) | | |
| No data available | | |
| Partition coefficient: n-octanol/water | | |
| No data available | | |
| Viscosity | | |
| Value | 2.4 | mPa*s |
| Reference temperature | 20 | °C |
| Type | dynamic | |
| Value | 2.9 | mm ² /s |
| Reference temperature | 20 | °C |
| Type | kinematic | |
| Solvent content | | |
| Value | 88 | % |
| Method | VOC (quantity of substances with a vapour pressure >= 0.01 kPa) | |

Trade name: Aurofilm (REF 52015, REF 52019)

Current version : 4.1.0, issued: 10.04.2019

Replaced version: 4.0.1, issued: 02.12.2015

Region: GB

9.2 Other information

Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

None, if handled according to order.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources. Protect from sun.

10.5 Incompatible materials

Earth alkali metals; Alkali metals; Oxidizing agents

10.6 Hazardous decomposition products

In case of fire the following can be released: Formaldehyde

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

No data available

Acute dermal toxicity

| No | Substance name | CAS no. | EC no. |
|---------|----------------|---------|------------------|
| 1 | propan-1-ol | 71-23-8 | 200-746-9 |
| LD50 | | 4032 | mg/kg bodyweight |
| Species | rabbit | | |
| Method | OECD 402 | | |
| Source | ECHA | | |

Acute inhalational toxicity

| No | Substance name | CAS no. | EC no. |
|----------------------|----------------|---------|-----------|
| 1 | propan-1-ol | 71-23-8 | 200-746-9 |
| LC50 | | 33.8 | mg/l |
| Duration of exposure | > | 4 | h |
| State of aggregation | Vapour | | |
| Species | rat | | |
| Method | OECD 403 | | |
| Source | ECHA | | |

Skin corrosion/irritation

| No | Substance name | CAS no. | EC no. |
|----------------------|----------------|---------|-----------|
| 1 | propan-1-ol | 71-23-8 | 200-746-9 |
| Duration of exposure | | 20 | h |
| Species | rabbit | | |
| Method | OECD 404 | | |
| Source | ECHA | | |
| Evaluation | non-irritant | | |

Trade name: Aurofilm (REF 52015, REF 52019)

Current version : 4.1.0, issued: 10.04.2019

Replaced version: 4.0.1, issued: 02.12.2015

Region: GB

| Serious eye damage/irritation | | | |
|--------------------------------------|----------------|-------------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | propan-1-ol | 71-23-8 | 200-746-9 |
| Duration of exposure | | 72 | h |
| Species | | rabbit | |
| Method | | OECD 405 | |
| Source | | ECHA | |
| Evaluation | | strongly irritant | |

| Respiratory or skin sensitisation | | | |
|--|--|--|--|
| No data available | | | |

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

| Reproduction toxicity | | | |
|------------------------------|--|--|--|
| No data available | | | |

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

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

| STOT - repeated exposure | | | |
|---------------------------------|----------------|--------------|-------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | propan-1-ol | 71-23-8 | 200-746-9 |
| Route of exposure | | inhalational | |
| NOAEC | | 8000 | mg/m ³ |
| Species | | rat | |
| Method | | OECD 413 | |
| Source | | ECHA | |

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

| Delayed and immediate effects as well as chronic effects from short and long-term exposure | | | |
|--|--|--|--|
| Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Inhalation of vapours may lead to headache, drowsiness and dizziness. Possibility of sensitisation through skin contact. Danger of acute eye damage. Inhalation of vapours in higher concentration may lead to irritation of eyes, nose and respiratory tract. | | | |

SECTION 12: Ecological information

12.1 Toxicity

| Toxicity to fish (acute) | | | |
|---------------------------------|----------------|---------------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | propan-1-ol | 71-23-8 | 200-746-9 |
| LC50 | | 4555 | mg/l |
| Duration of exposure | | 96 | h |
| Species | | Pimephales promelas | |
| Method | | OECD 203 | |
| Source | | ECHA | |

Trade name: Aurofilm (REF 52015, REF 52019)

Current version : 4.1.0, issued: 10.04.2019

Replaced version: 4.0.1, issued: 02.12.2015

Region: GB

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

| Toxicity to Daphnia (acute) | | | |
|-----------------------------|----------------|---------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | propan-1-ol | 71-23-8 | 200-746-9 |
| EC50 | | 3644 | mg/l |
| Duration of exposure | | 48 | h |
| Species | | Daphnia magna | |
| Method | | DIN 38412 | |
| Source | | ECHA | |

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

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

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

| Bacteria toxicity | |
|-------------------|--|
| No data available | |

12.2 Persistence and degradability

| Biodegradability | | | |
|------------------|----------------|-----------------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | propan-1-ol | 71-23-8 | 200-746-9 |
| Value | | 83 | - 92 % |
| Duration | | | 28 d |
| Method | | OECD 301 F | |
| Evaluation | | readily biodegradable | |

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

| Results of PBT and vPvB assessment | |
|------------------------------------|--------------------|
| PBT assessment | No data available. |
| vPvB assessment | No data available. |

12.6 Other adverse effects

No data available.

12.7 Other information

| Other information |
|---|
| Do not discharge into the drains or waters and do not store on public depositories. |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

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 the form of disposal specified by the regional disposer.

Trade name: Aurofilm (REF 52015, REF 52019)

Current version : 4.1.0, issued: 10.04.2019

Replaced version: 4.0.1, issued: 02.12.2015

Region: GB

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

| | |
|---------------------------|---------------------|
| Class | 3 |
| Classification code | F1 |
| Packing group | III |
| Hazard identification no. | 30 |
| UN number | UN1274 |
| Proper shipping name | n-PROPANOL solution |
| Tunnel restriction code | D/E |
| Label | 3 |

14.2 Transport IMDG

| | |
|----------------------|---------------------|
| Class | 3 |
| Packing group | III |
| UN number | UN1274 |
| Proper shipping name | n-PROPANOL Solution |
| EmS | F-E, S-D |
| Label | 3 |

14.3 Transport ICAO-TI / IATA

| | |
|----------------------|---------------------|
| Class | 3 |
| Packing group | III |
| UN number | UN1274 |
| Proper shipping name | n-Propanol Solution |
| Label | 3 |

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please 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 and the IBC Code

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

| | |
|---|----------|
| The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII. | No 3, 40 |
|---|----------|

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

Trade name: Aurofilm (REF 52015, REF 52019)

Current version : 4.1.0, issued: 10.04.2019

Replaced version: 4.0.1, issued: 02.12.2015

Region: GB

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H225 Highly flammable liquid and vapour.

H317 May cause an allergic skin reaction.

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

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.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

Document protected by copyright. Alterations or reproductions require the express written permission of UMCO GmbH.

Prod-ID 623070