

Safety Data Sheet

according to Regulation (EC) No 1907/2006



Blue Marker

Revision date: 01.02.2018

Product code: 11294-0005

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

1.1. Product identifier

Blue Marker

Further trade names

Article number:

580-0001, 580-0006, 580-0001M, 580-0018, 580-6018 (Blue Marker)

580-2001, 580-2006, 580-2018, 580-2618 (Blue Marker Diluent)

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

Use of the substance/mixture

Liquid contact paint

1.3. Details of the supplier of the safety data sheet

Company name: YETI Dentalprodukte GmbH

Street: Industriestrasse 3

Place: D-78234 Engen

Telephone: +49 7733-9410-0

Telefax: +49 7733-9410-22

Responsible Department: sdb@yeti-dental.com

Responsible for the safety data sheet: sds@gbk-ingelheim.de

1.4. Emergency telephone number:

+49 7733-9410-0 (Mo-Do 8:00 - 16:30, Fr 8:00 - 15:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or dizziness.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

propan-2-ol; isopropyl alcohol; isopropanol

Signal word: Danger

Pictograms:



Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

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

P233 Keep container tightly closed.

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| | |
|----------------|--|
| P240 | Ground and bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting equipment. |
| P242 | Use non-sparking tools. |
| P243 | Take action to prevent static discharges. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P312 | Call a POISON CENTER/doctor if you feel unwell. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P235 | Keep cool. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

Additional advice on labelling

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture containing following substances with additives

Hazardous components

| CAS No | Chemical name | Quantity | | |
|---------|---|--------------|------------------|-----------|
| | EC No | Index No | REACH No | |
| | Classification according to Regulation (EC) No. 1272/2008 [CLP] | | | |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | 50 - 70 % |
| | 200-661-7 | 603-117-00-0 | 01-2119457558-25 | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 | | | |

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove contaminated soaked clothing immediately. Keep warm and calm injured person. Take away from danger area and lay down affected person.

After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products. Refer for medical treatment.

After contact with skin

Wash off with soap and plenty of water. Consult a doctor if skin irritation persists.

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After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Summon a doctor immediately. Do not give neutralising liquids.

4.2. Most important symptoms and effects, both acute and delayed

Following inhalation/eye contact: irritation of the mucous membranes, a numbing effect, impaired reaction times and sense of coordination are possible at high concentrations. Headache, dizziness, nausea, etc. may arise following prolonged inhalation of high vapour concentrations.

4.3. Indication of any immediate medical attention and special treatment needed

In case of the person being unconscious summon a doctor immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), water-spray.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Fire may produce: carbon monoxide and carbon dioxide. Vapours are heavier than air and spread along ground. Flashback at a long distance is possible.

5.3. Advice for firefighters

Use breathing apparatus with independent air supply.
Protective suit.

Additional information

Vapours are heavier than air and spread along ground. The vapour/air mixture is explosive, even in empty, uncleaned receptacles. Risk of bursting of the receptacle. Cool containers at risk with water spray jet. 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

In case of vapour formation use respirator. Ensure adequate ventilation. Use personal protective clothing. Get unprotected persons to safety. Keep away from heat and sources of ignition. Avoid contact with the skin and the eyes. Do not inhale vapour/aerosol.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water. Risk of explosion.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Shovel into suitable container for disposal. Clean contaminated surface thoroughly. Take measures against electrostatic charging.

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).
Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not keep containers unlocked. Observe the minimum standards in accordance with TRGS 500. Handle in accordance with the general hygienic rules. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Contaminated work clothing should not be allowed out of the workplace.

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Avoid formation of Aerosols.

Advice on protection against fire and explosion

Vapours are heavier than air. In use, may form flammable/explosive vapour-air mixture. Take precautionary measures against static discharges (earthing (grounding) at pouring).

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Provide solvent-resistant and impermeable floor. Provide floor with bunding. Prevent penetration into the ground. Store in the original container.

Advice on storage compatibility

Keep away from food, drink and animal feeding stuffs. Do not store together with oxidizing and self-igniting products.

Do not store with: Medicinal product, Substances which form flammable gases with water, Organic peroxides.

Further information on storage conditions

Use only in well-ventilated areas. Keep containers tightly closed in a cool, well-ventilated place. Protect from heat and direct solar radiation.

7.3. Specific end use(s)

Liquid contact paint

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|-----------|-----------------------------------|-----|-------------------|-----------|---------------|--------|
| 1317-65-3 | Calcium carbonate, inhalable dust | - | 10 | | TWA (8 h) | WEL |
| | | - | - | | STEL (15 min) | WEL |
| 56-81-5 | Glycerol, mist | - | 10 | | TWA (8 h) | WEL |
| | | - | - | | STEL (15 min) | WEL |
| 67-63-0 | Propan-2-ol | 400 | 999 | | TWA (8 h) | WEL |
| | | 500 | 1250 | | STEL (15 min) | WEL |

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|-------------------|----------------|----------|----------------------|
| 1317-65-3 | calcium carbonate | | | |
| Worker DNEL, long-term | | inhalation | systemic | 10 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | systemic | 10 mg/m ³ |
| Consumer DNEL, acute | | dermal | systemic | 6,1 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | systemic | 6,1 mg/kg bw/day |

PNEC values

| CAS No | Substance | Value |
|--|-------------------|----------|
| 1317-65-3 | calcium carbonate | |
| Micro-organisms in sewage treatment plants (STP) | | 100 mg/l |

8.2. Exposure controls

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Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over the use of personal protective equipment. Ensure adequate ventilation. Provide sufficient air exchange and/or exhaust in work rooms. Orientating ethanol concentration measurement with detector tubes; e.g. Compur (549 210 type: 104 SA), Dräger (81 01631 type: alcohol/25a), Auer (5085-818 type: ethanol-100).

Protective and hygiene measures

Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Take off immediately all contaminated clothing.

Eye/face protection

Tightly fitting goggles (EN 166).
Eye wash bottle with pure water (EN 15154).

Hand protection

Splash protection: Protective gloves resistant to chemicals made off butyl, minimum coat thickness 0.7 mm, permeation resistance (wear duration) > 240 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Skin protection

Long sleeved clothing (EN 368). Wear fire retardant protective coveralls. Take precautions against electrostatic discharges.

Respiratory protection

In case of vapour / mist formation use respirator. (Full mask, filter A).

Environmental exposure controls

Do not empty into drains. Explosion risk.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|----------------|
| Physical state: | Liquid |
| Colour: | Blue |
| Odour: | Solvent-like |
| pH-Value: | Not applicable |

Changes in the physical state

| | |
|--|-------------------|
| Melting point: | - 88 °C |
| Initial boiling point and boiling range: | 82 °C |
| Sublimation point: | Not determined |
| Softening point: | Not determined |
| Pour point: | Not determined |
| Flash point: | 12 °C |
| Sustaining combustion: | No data available |

Flammability

| | |
|--------|----------------|
| Solid: | Not determined |
| Gas: | Not determined |

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Explosive properties

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated. Heating will cause pressure rise with risk of bursting.

| | |
|-------------------------|-----------|
| Lower explosion limits: | 2 vol. % |
| Upper explosion limits: | 12 vol. % |
| Ignition temperature: | 465 °C |

Auto-ignition temperature

| | |
|----------------------------|----------------|
| Solid: | Not determined |
| Gas: | Not determined |
| Decomposition temperature: | Not determined |

Oxidizing properties

Not determined

| | |
|--------------------------------|------------------------|
| Vapour pressure: (at 20 °C) | 43 hPa |
| Vapour pressure: | Not determined |
| Density (at 20 °C): | 0,78 g/cm ³ |
| Bulk density: | Not determined |
| Water solubility: | Miscible |

Solubility in other solvents

Not determined

| | |
|------------------------------------|----------------|
| Partition coefficient: | 0,05 |
| Viscosity / dynamic: (at 20 °C) | 0,32 mPa·s |
| Viscosity / kinematic: | Not determined |
| Flow time: | Not determined |
| Vapour density: | Not determined |
| Evaporation rate: | Not determined |
| Solvent separation test: | Not determined |
| Solvent content: | Not determined |

9.2. Other information

| | |
|----------------|----------------|
| Solid content: | Not determined |
|----------------|----------------|

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed. Heating will cause pressure rise with risk of bursting. In use, may form flammable/explosive vapour-air mixture. Uncleaned empty vessels may contain product gases which can form explosive mixtures with air.

10.2. Chemical stability

Chemically stable.

10.3. Possibility of hazardous reactions

Heating can release vapours which can be ignited.

10.4. Conditions to avoid

Vapour/air mixtures are explosive at intensive warming. Heating can release vapours which can be ignited. Avoid temperatures above 12 °C. In use formation of flammable/explosive vapour-air mixtures possible.

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Keep from freezing. Protect against direct sun radiation.

10.5. Incompatible materials

Oxidizing agents (strong)., Strong acids and strong bases.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

| CAS No | Chemical name | | | | |
|---------|---|---------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | | |
| | oral | LD50 mg/kg | 5050 | Rat | |
| | dermal | LD50 mg/kg | 12800 | Rabbit | |

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (propan-2-ol; isopropyl alcohol; isopropanol)

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Further information

Inhalation of vapours in high concentration can cause narcotic effects. Inhalation causes headache/nausea.

Prolonged skin contact may cause skin irritation and/or dermatitis.

SECTION 12: Ecological information

12.1. Toxicity

Not determined

| CAS No | Chemical name | | | | | |
|---------|---|--------------|-----------|---------|--------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | | | |
| | Acute fish toxicity | LC50 mg/l | > 1000 | 96 h | | |
| | Acute crustacea toxicity | EC50 mg/l | > 1000 | 48 h | | |

12.2. Persistence and degradability

CSB: 2,32gO₂/g (propan-2-ol; isopropyl alcohol; isopropanol)

12.3. Bioaccumulative potential

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Not determined

12.4. Mobility in soil

Not determined

12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

12.6. Other adverse effects

Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

This material and its container must be disposed of as hazardous waste. If recycling is not practicable, dispose of in compliance with local regulations. The waste code number must be agreed with the disposer / manufacturer.

Waste disposal number of waste from residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Contaminated packagings are to be treated like the product itself.

Recommended cleaning agent: water with detergents.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|---|---------------------------------|
| <u>14.1. UN number:</u> | UN 1219 |
| <u>14.2. UN proper shipping name:</u> | ISOPROPANOL (ISOPROPYL ALCOHOL) |
| <u>14.3. Transport hazard class(es):</u> | 3 |
| <u>14.4. Packing group:</u> | II |
| Hazard label: | 3 |



| | |
|--------------------------|-----|
| Classification code: | F1 |
| Special Provisions: | 601 |
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |
| Transport category: | 2 |
| Hazard No: | 33 |
| Tunnel restriction code: | D/E |

Inland waterways transport (ADN)

| | |
|---|---------------------------------|
| <u>14.1. UN number:</u> | UN 1219 |
| <u>14.2. UN proper shipping name:</u> | ISOPROPANOL (ISOPROPYL ALCOHOL) |
| <u>14.3. Transport hazard class(es):</u> | 3 |
| <u>14.4. Packing group:</u> | II |

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Hazard label: 3



Classification code: F1
Special Provisions: 601
Limited quantity: 1 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number: UN 1219
14.2. UN proper shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3



Special Provisions: -
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1219
14.2. UN proper shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3



Special Provisions: A180
Limited quantity Passenger: 1 L
Passenger LQ: Y341
Excepted quantity: E2
IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

The transport takes place only in approved and appropriate packaging.

SECTION 15: Regulatory information

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

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EU regulatory information

2004/42/EC (VOC): 100 %
Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

Update 2018

Abbreviations and acronyms

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (Agreement concerning the international carriage of Dangerous goods by Road)
IMDG-Code: International Maritime Code for Dangerous Goods
ICAO: International Civil Aviation Organisation (IATA: The International Air Transport Association)
GHS: Globally Harmonized System of Classification, Labelling and Packaging of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS-Nr.: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification | Classification procedure |
|--------------------|--------------------------|
| Flam. Liq. 2; H225 | On basis of test data |
| Eye Irrit. 2; H319 | Calculation method |
| STOT SE 3; H336 | Calculation method |

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

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Hazard statements

- | | |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |

Precautionary statements

- | | |
|----------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground and bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting equipment. |
| P242 | Use non-sparking tools. |
| P243 | Take action to prevent static discharges. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P312 | Call a POISON CENTER/doctor if you feel unwell. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P235 | Keep cool. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

Additional advice on labelling

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Hazardous components

| CAS No | Chemical name | Quantity | | |
|-----------|---|--------------|------------------|-----------|
| | EC No | Index No | REACH No | |
| | Classification according to Regulation (EC) No. 1272/2008 [CLP] | | | |
| 141-78-6 | ethyl acetate | | | 20 - 50 % |
| | 205-500-4 | 607-022-00-5 | 01-2119475103-46 | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066 | | | |
| 123-86-4 | n-butyl acetate | | | 15 - 30 % |
| | 204-658-1 | 607-025-00-1 | 01-2119485493-29 | |
| | Flam. Liq. 3, STOT SE 3; H226 H336 EUH066 | | | |
| 9004-70-0 | Nitrocellulose | | | 15 - 25 % |
| | - | | | |
| | Expl. 1.1; H201 | | | |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | 15 - 25 % |
| | 200-661-7 | 603-117-00-0 | 01-2119457558-25 | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 | | | |

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.

When the first symptoms appear, or in case of doubt seek medical advice.

After inhalation

Ensure of fresh air. Get medical attention, if respiratory irritation develops or if breathing becomes difficult. In case of the person being unconscious put him/her in a stable side position.

After contact with skin

Wash off with soap and plenty of water. Consult a doctor if skin irritation persists.

After contact with eyes

Remove contact lens. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Summon a doctor immediately. Do not give neutralising liquids.

4.2. Most important symptoms and effects, both acute and delayed

Following inhalation/eye contact: irritation of the mucous membranes, a numbing effect, impaired reaction times and sense of coordination are possible at high concentrations. Headache, dizziness, nausea, etc. may arise following prolonged inhalation of high vapour concentrations.

4.3. Indication of any immediate medical attention and special treatment needed

In case of the person being unconscious summon a doctor immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), water-spray.

Unsuitable extinguishing media

Full water jet.

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5.2. Special hazards arising from the substance or mixture

Fire may produce: carbon monoxide and carbon dioxide. Vapours are heavier than air and spread along ground. Flashback at a long distance is possible.

5.3. Advice for firefighters

Use breathing apparatus with independent air supply.
Protective suit.

Additional information

The vapour/air mixture is explosive, even in empty, uncleaned receptacles. Risk of bursting of the receptacle. Cool containers at risk with water spray jet. 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

Ensure adequate ventilation. Use personal protective clothing. Get unprotected persons to safety. Keep away from heat and sources of ignition. Avoid contact with the skin and the eyes.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water. Risk of explosion.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Shovel into suitable container for disposal.

Use explosion-proof equipment / fittings and non-sparking tools.

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not keep containers unlocked. Observe the minimum standards in accordance with TRGS 500. Handle in accordance with the general hygienic rules. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Contaminated work clothing should not be allowed out of the workplace. Avoid formation of Aerosols.

Advice on protection against fire and explosion

Vapours are heavier than air. In use, may form flammable/explosive vapour-air mixture. Take precautionary measures against static discharges (earthing (grounding) at pouring).

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Provide solvent-resistant and impermeable floor. Provide floor with bunding. Prevent penetration into the ground. Store in the original container.

Advice on storage compatibility

Keep away from food, drink and animal feeding stuffs. Do not store together with oxidizing and self-igniting products.

Do not store with: Medicinal product, Substances which form flammable gases with water, Organic peroxides.

Further information on storage conditions

Recommended storage temperature: room temperature. (< 20 °C) Keep in a dry, cool place.

7.3. Specific end use(s)

For sealing gypsum dies and placeholders

SECTION 8: Exposure controls/personal protection

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according to Regulation (EC) No 1907/2006



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8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|----------|---------------|-----|-------------------|-----------|---------------|--------|
| 123-86-4 | Butyl acetate | 150 | 724 | | TWA (8 h) | WEL |
| | | 200 | 966 | | STEL (15 min) | WEL |
| 141-78-6 | Ethyl acetate | 200 | - | | TWA (8 h) | WEL |
| | | 400 | - | | STEL (15 min) | WEL |
| 67-63-0 | Propan-2-ol | 400 | 999 | | TWA (8 h) | WEL |
| | | 500 | 1250 | | STEL (15 min) | WEL |

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over the use of personal protective equipment. Ensure adequate ventilation. Provide sufficient air exchange and/or exhaust in work rooms. Orientating ethanol concentration measurement with detector tubes; e.g. Compur (549 210 type: 104 SA), Dräger (81 01631 type: alcohol/25a), Auer (5085-818 type: ethanol-100).

Protective and hygiene measures

Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Take off immediately all contaminated clothing.

Eye/face protection

Tightly fitting goggles (EN 166).

Hand protection

Protective gloves (EN 374)

Recommended material [thickness, permeation time, type]: protective index 6, corresponding to 480 minutes of permeation time according to EN 374: butyl rubber (Butyl) - = 0.7 mm thickness; i.e. < Butoject 898> made by KCL.

Glove material must be impermeable and resistant against product / substance / preparation. Gloves material should comply with breakthrough times, permeation rates, and degradation. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves. Follow the recommendations of the glove manufacturer for breakthrough properties especially for workplace conditions involving mechanical stress and contact duration. The exact break through time has to be found out by the manufacturer of the protective gloves.

Skin protection

Long sleeved clothing (EN 368). Wear fire retardant protective coveralls. Take precautions against electrostatic discharges.

Respiratory protection

If the occupational exposure limit is exceeded, suitable respiratory protection must be worn. (Gas filter A1 (brown))

Environmental exposure controls

Do not empty into drains. Explosion risk.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: Various, depending on coloration
Odour: Characteristic

Test method

pH-Value (at 20 °C): Not applicable DIN 19268

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Changes in the physical state

| | |
|--|-------------------|
| Melting point: | Not determined |
| Initial boiling point and boiling range: | (697 hPa) 55 °C |
| Sublimation point: | Not determined |
| Softening point: | Not determined |
| Pour point: | Not determined |
| Flash point: | -18 °C ISO 1523 |
| Sustaining combustion: | No data available |

Flammability

| | |
|--------|----------------|
| Solid: | Not determined |
| Gas: | Not determined |

Explosive properties

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated. Heating will cause pressure rise with risk of bursting.

| | |
|-------------------------|----------------|
| Lower explosion limits: | 1,5 vol. % |
| Upper explosion limits: | 13 vol. % |
| Ignition temperature: | Not determined |

Auto-ignition temperature

| | |
|--------|----------------|
| Solid: | Not determined |
| Gas: | Not determined |

Decomposition temperature: Not determined

Oxidizing properties

Not determined

Vapour pressure: 2470 hPa berechnet
(at 20 °C)

Vapour pressure: Not determined

Density (at 20 °C): Not determined

Bulk density: Not determined

Water solubility: Partially miscible
(at 20 °C)

Solubility in other solvents

Not determined

Partition coefficient: Not determined

Viscosity / dynamic: Not determined

Viscosity / kinematic: Not determined

Flow time: 20 s 4 DIN 53211
(at 23 °C)

Vapour density: Not determined

Evaporation rate: Not determined

Solvent separation test: Not determined

Solvent content: > 75%

9.2. Other information

Solid content: Not determined

No data available.

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SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed. Heating will cause pressure rise with risk of bursting.

10.2. Chemical stability

Chemically stable.

10.3. Possibility of hazardous reactions

Heating can release vapours which can be ignited.

10.4. Conditions to avoid

Avoid temperatures above 9 °C. In use formation of flammable/explosive vapour-air mixtures possible.

10.5. Incompatible materials

Plastics and rubber are attacked.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

| CAS No | Chemical name | | | | |
|----------|---|--------------------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 141-78-6 | ethyl acetate | | | | |
| | oral | LD50 mg/kg 5620 | Rat | | |
| | dermal | LD50 mg/kg > 18000 | Rabbit | | |
| 123-86-4 | n-butyl acetate | | | | |
| | oral | LD50 mg/kg 10800 | Rat | | |
| | dermal | LD50 mg/kg > 17600 | Rabbit | | |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | | |
| | oral | LD50 mg/kg 5050 | Rat | | |
| | dermal | LD50 mg/kg 12800 | Rabbit | | |

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (ethyl acetate; n-butyl acetate)

STOT-repeated exposure

Based on available data, the classification criteria are not met.

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Aspiration hazard

Based on available data, the classification criteria are not met.

Further information

Inhalation of vapours in high concentration can cause narcotic effects. Inhalation causes headache/nausea.

SECTION 12: Ecological information

12.1. Toxicity

No data available.

| CAS No | Chemical name | | | | | |
|----------|---|--------------------|-----------|---------|----------------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 141-78-6 | ethyl acetate | | | | | |
| | Acute fish toxicity | LC50 > 200 mg/l | 96 h | | | |
| | Acute algae toxicity | ErC50 > 2000 mg/l | 96 h | | | |
| | Acute crustacea toxicity | EC50 > 150 mg/l | 48 h | | | |
| 123-86-4 | n-butyl acetate | | | | | |
| | Acute fish toxicity | LC50 18 - 185 mg/l | 96 h | | REACH / GESTIS | |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | | | |
| | Acute fish toxicity | LC50 > 1000 mg/l | 96 h | | | |
| | Acute crustacea toxicity | EC50 > 1000 mg/l | 48 h | | | |

12.2. Persistence and degradability

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

12.3. Bioaccumulative potential

Not determined

12.4. Mobility in soil

Not determined

12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

This material and its container must be disposed of as hazardous waste. If recycling is not practicable, dispose of in compliance with local regulations. The waste code number must be agreed with the disposer / manufacturer.

Waste disposal number of waste from residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

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Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Contaminated packagings are to be treated like the product itself.

Recommended cleaning agent: water with detergents.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 2059
14.2. UN proper shipping name: Nitrocellulose, Solution, flammable
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3



Classification code: D
Special Provisions: 198 531 640D
Limited quantity: 1 L
Excepted quantity: E0
Transport category: 2
Hazard No: 33
Tunnel restriction code: B

Inland waterways transport (ADN)

14.1. UN number: UN 2059
14.2. UN proper shipping name: Nitrocellulose, Solution, flammable
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3



Classification code: D
Special Provisions: 198 531 640D
Limited quantity: 1 L
Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number: UN 2059
14.2. UN proper shipping name: Nitrocellulose, Solution, flammable
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3



Special Provisions: 198
Limited quantity: 1 L

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Excepted quantity: E0
EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 2059
14.2. UN proper shipping name: Nitrocellulose Solution, flammable
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3



Special Provisions: A3 A91
Limited quantity Passenger: 1 L
Passenger LQ: Y341
Excepted quantity: E0
IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

The transport takes place only in approved and appropriate packaging.

SECTION 15: Regulatory information

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

EU regulatory information

Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Water contaminating class (D): 1 - slightly water contaminating

Additional information

Observe the minimum standards in accordance with TRGS 500.

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

Update 2018

Abbreviations and acronyms

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (Agreement concerning the international carriage of Dangerous goods by Road)
IMDG-Code: International Maritime Code for Dangerous Goods
ICAO: International Civil Aviation Organisation (IATA: The International Air Transport Association)

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GHS: Globally Harmonized System of Classification, Labelling and Packaging of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS-Nr.: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification | Classification procedure |
|--------------------|--------------------------|
| Flam. Liq. 2; H225 | On basis of test data |
| Eye Irrit. 2; H319 | Calculation method |
| STOT SE 3; H336 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|--------|---|
| H201 | Explosive; mass explosion hazard. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

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

1.1. Product identifier

Stumpflacke - Spacer

Further trade names

Article number:

500-0001, 500-0006, 500-0001M, 500-0018, 500-6018

501-0001, 501-0006, 501-0001M, 501-0018, 501-6018

502-0001, 502-0006, 502-0001M, 502-0018, 502-6018

503-0001, 503-0006, 503-0001M, 503-0018, 503-6018

504-0001, 504-0006, 504-0001M, 504-0018, 504-6018

505-0001, 505-0006, 505-0001M, 505-0018, 505-6018

506-0001, 506-0006, 506-0001M, 506-0018, 506-6018

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

Use of the substance/mixture

For sealing gypsum dies and placeholders

1.3. Details of the supplier of the safety data sheet

Company name: YETI Dentalprodukte GmbH

Street: Industriestrasse 3

Place: D-78234 Engen

Telephone: +49 7733-9410-0

Telefax: +49 7733-9410-22

Responsible Department: sdb@yeti-dental.com

Responsible for the safety data sheet: sds@gbk-ingelheim.de

1.4. Emergency telephone

number:

+49 7733-9410-0 (Mo-Do 8:00 - 16:30, Fr 8:00 - 15:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or dizziness.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

ethyl acetate

n-butyl acetate

propan-2-ol; isopropyl alcohol; isopropanol

Signal word:

Danger

Pictograms:



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Hazard statements

- | | |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |

Precautionary statements

- | | |
|----------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground and bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting equipment. |
| P242 | Use non-sparking tools. |
| P243 | Take action to prevent static discharges. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P312 | Call a POISON CENTER/doctor if you feel unwell. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P235 | Keep cool. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

Additional advice on labelling

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Hazardous components

| CAS No | Chemical name | Quantity | | |
|-----------|---|--------------|------------------|-----------|
| | EC No | Index No | REACH No | |
| | Classification according to Regulation (EC) No. 1272/2008 [CLP] | | | |
| 141-78-6 | ethyl acetate | | | 20 - 50 % |
| | 205-500-4 | 607-022-00-5 | 01-2119475103-46 | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066 | | | |
| 123-86-4 | n-butyl acetate | | | 15 - 30 % |
| | 204-658-1 | 607-025-00-1 | 01-2119485493-29 | |
| | Flam. Liq. 3, STOT SE 3; H226 H336 EUH066 | | | |
| 9004-70-0 | Nitrocellulose | | | 15 - 25 % |
| | - | | | |
| | Expl. 1.1; H201 | | | |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | 15 - 25 % |
| | 200-661-7 | 603-117-00-0 | 01-2119457558-25 | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 | | | |

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.

When the first symptoms appear, or in case of doubt seek medical advice.

After inhalation

Ensure of fresh air. Get medical attention, if respiratory irritation develops or if breathing becomes difficult. In case of the person being unconscious put him/her in a stable side position.

After contact with skin

Wash off with soap and plenty of water. Consult a doctor if skin irritation persists.

After contact with eyes

Remove contact lens. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Summon a doctor immediately. Do not give neutralising liquids.

4.2. Most important symptoms and effects, both acute and delayed

Following inhalation/eye contact: irritation of the mucous membranes, a numbing effect, impaired reaction times and sense of coordination are possible at high concentrations. Headache, dizziness, nausea, etc. may arise following prolonged inhalation of high vapour concentrations.

4.3. Indication of any immediate medical attention and special treatment needed

In case of the person being unconscious summon a doctor immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), water-spray.

Unsuitable extinguishing media

Full water jet.

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5.2. Special hazards arising from the substance or mixture

Fire may produce: carbon monoxide and carbon dioxide. Vapours are heavier than air and spread along ground. Flashback at a long distance is possible.

5.3. Advice for firefighters

Use breathing apparatus with independent air supply.
Protective suit.

Additional information

The vapour/air mixture is explosive, even in empty, uncleaned receptacles. Risk of bursting of the receptacle. Cool containers at risk with water spray jet. 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

Ensure adequate ventilation. Use personal protective clothing. Get unprotected persons to safety. Keep away from heat and sources of ignition. Avoid contact with the skin and the eyes.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water. Risk of explosion.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Shovel into suitable container for disposal.

Use explosion-proof equipment / fittings and non-sparking tools.

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not keep containers unlocked. Observe the minimum standards in accordance with TRGS 500. Handle in accordance with the general hygienic rules. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Contaminated work clothing should not be allowed out of the workplace. Avoid formation of Aerosols.

Advice on protection against fire and explosion

Vapours are heavier than air. In use, may form flammable/explosive vapour-air mixture. Take precautionary measures against static discharges (earthing (grounding) at pouring).

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Provide solvent-resistant and impermeable floor. Provide floor with bunding. Prevent penetration into the ground. Store in the original container.

Advice on storage compatibility

Keep away from food, drink and animal feeding stuffs. Do not store together with oxidizing and self-igniting products.

Do not store with: Medicinal product, Substances which form flammable gases with water, Organic peroxides.

Further information on storage conditions

Recommended storage temperature: room temperature. (< 20 °C) Keep in a dry, cool place.

7.3. Specific end use(s)

For sealing gypsum dies and placeholders

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|----------|---------------|-----|-------------------|-----------|---------------|--------|
| 123-86-4 | Butyl acetate | 150 | 724 | | TWA (8 h) | WEL |
| | | 200 | 966 | | STEL (15 min) | WEL |
| 141-78-6 | Ethyl acetate | 200 | - | | TWA (8 h) | WEL |
| | | 400 | - | | STEL (15 min) | WEL |
| 67-63-0 | Propan-2-ol | 400 | 999 | | TWA (8 h) | WEL |
| | | 500 | 1250 | | STEL (15 min) | WEL |

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over the use of personal protective equipment. Ensure adequate ventilation. Provide sufficient air exchange and/or exhaust in work rooms. Orientating ethanol concentration measurement with detector tubes; e.g. Compur (549 210 type: 104 SA), Dräger (81 01631 type: alcohol/25a), Auer (5085-818 type: ethanol-100).

Protective and hygiene measures

Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Take off immediately all contaminated clothing.

Eye/face protection

Tightly fitting goggles (EN 166).

Hand protection

Protective gloves (EN 374)

Recommended material [thickness, permeation time, type]: protective index 6, corresponding to 480 minutes of permeation time according to EN 374: butyl rubber (Butyl) - = 0.7 mm thickness; i.e. < Butoject 898> made by KCL.

Glove material must be impermeable and resistant against product / substance / preparation. Gloves material should comply with breakthrough times, permeation rates, and degradation. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves. Follow the recommendations of the glove manufacturer for breakthrough properties especially for workplace conditions involving mechanical stress and contact duration. The exact break through time has to be found out by the manufacturer of the protective gloves.

Skin protection

Long sleeved clothing (EN 368). Wear fire retardant protective coveralls. Take precautions against electrostatic discharges.

Respiratory protection

If the occupational exposure limit is exceeded, suitable respiratory protection must be worn. (Gas filter A1 (brown))

Environmental exposure controls

Do not empty into drains. Explosion risk.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: Various, depending on coloration
Odour: Characteristic

Test method

pH-Value (at 20 °C): Not applicable DIN 19268

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Changes in the physical state

| | |
|--|-------------------|
| Melting point: | Not determined |
| Initial boiling point and boiling range: | (697 hPa) 55 °C |
| Sublimation point: | Not determined |
| Softening point: | Not determined |
| Pour point: | Not determined |
| Flash point: | -18 °C ISO 1523 |
| Sustaining combustion: | No data available |

Flammability

| | |
|--------|----------------|
| Solid: | Not determined |
| Gas: | Not determined |

Explosive properties

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated. Heating will cause pressure rise with risk of bursting.

| | |
|-------------------------|----------------|
| Lower explosion limits: | 1,5 vol. % |
| Upper explosion limits: | 13 vol. % |
| Ignition temperature: | Not determined |

Auto-ignition temperature

| | |
|--------|----------------|
| Solid: | Not determined |
| Gas: | Not determined |

Decomposition temperature: Not determined

Oxidizing properties

Not determined

Vapour pressure: 2470 hPa berechnet
(at 20 °C)

Vapour pressure: Not determined

Density (at 20 °C): Not determined

Bulk density: Not determined

Water solubility: Partially miscible
(at 20 °C)

Solubility in other solvents

Not determined

Partition coefficient: Not determined

Viscosity / dynamic: Not determined

Viscosity / kinematic: Not determined

Flow time: 20 s 4 DIN 53211
(at 23 °C)

Vapour density: Not determined

Evaporation rate: Not determined

Solvent separation test: Not determined

Solvent content: > 75%

9.2. Other information

Solid content: Not determined

No data available.

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SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed. Heating will cause pressure rise with risk of bursting.

10.2. Chemical stability

Chemically stable.

10.3. Possibility of hazardous reactions

Heating can release vapours which can be ignited.

10.4. Conditions to avoid

Avoid temperatures above 9 °C. In use formation of flammable/explosive vapour-air mixtures possible.

10.5. Incompatible materials

Plastics and rubber are attacked.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

| CAS No | Chemical name | | | | |
|----------|---|---------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 141-78-6 | ethyl acetate | | | | |
| | oral | LD50 mg/kg | 5620 | Rat | |
| | dermal | LD50 mg/kg | > 18000 | Rabbit | |
| 123-86-4 | n-butyl acetate | | | | |
| | oral | LD50 mg/kg | 10800 | Rat | |
| | dermal | LD50 mg/kg | > 17600 | Rabbit | |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | | |
| | oral | LD50 mg/kg | 5050 | Rat | |
| | dermal | LD50 mg/kg | 12800 | Rabbit | |

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (ethyl acetate; n-butyl acetate)

STOT-repeated exposure

Based on available data, the classification criteria are not met.

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Aspiration hazard

Based on available data, the classification criteria are not met.

Further information

Inhalation of vapours in high concentration can cause narcotic effects. Inhalation causes headache/nausea.

SECTION 12: Ecological information

12.1. Toxicity

No data available.

| CAS No | Chemical name | | | | | |
|----------|---|--------------------|-----------|---------|----------------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 141-78-6 | ethyl acetate | | | | | |
| | Acute fish toxicity | LC50 > 200 mg/l | 96 h | | | |
| | Acute algae toxicity | ErC50 > 2000 mg/l | 96 h | | | |
| | Acute crustacea toxicity | EC50 > 150 mg/l | 48 h | | | |
| 123-86-4 | n-butyl acetate | | | | | |
| | Acute fish toxicity | LC50 18 - 185 mg/l | 96 h | | REACH / GESTIS | |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | | | |
| | Acute fish toxicity | LC50 > 1000 mg/l | 96 h | | | |
| | Acute crustacea toxicity | EC50 > 1000 mg/l | 48 h | | | |

12.2. Persistence and degradability

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

12.3. Bioaccumulative potential

Not determined

12.4. Mobility in soil

Not determined

12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

This material and its container must be disposed of as hazardous waste. If recycling is not practicable, dispose of in compliance with local regulations. The waste code number must be agreed with the disposer / manufacturer.

Waste disposal number of waste from residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

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Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Contaminated packagings are to be treated like the product itself.

Recommended cleaning agent: water with detergents.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 2059
14.2. UN proper shipping name: Nitrocellulose, Solution, flammable
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3



Classification code: D
Special Provisions: 198 531 640D
Limited quantity: 1 L
Excepted quantity: E0
Transport category: 2
Hazard No: 33
Tunnel restriction code: B

Inland waterways transport (ADN)

14.1. UN number: UN 2059
14.2. UN proper shipping name: Nitrocellulose, Solution, flammable
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3



Classification code: D
Special Provisions: 198 531 640D
Limited quantity: 1 L
Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number: UN 2059
14.2. UN proper shipping name: Nitrocellulose, Solution, flammable
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3



Special Provisions: 198
Limited quantity: 1 L

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Excepted quantity: E0
EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 2059
14.2. UN proper shipping name: Nitrocellulose Solution, flammable
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3



Special Provisions: A3 A91
Limited quantity Passenger: 1 L
Passenger LQ: Y341
Excepted quantity: E0
IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

The transport takes place only in approved and appropriate packaging.

SECTION 15: Regulatory information

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

EU regulatory information

Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Water contaminating class (D): 1 - slightly water contaminating

Additional information

Observe the minimum standards in accordance with TRGS 500.

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

Update 2018

Abbreviations and acronyms

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (Agreement concerning the international carriage of Dangerous goods by Road)
IMDG-Code: International Maritime Code for Dangerous Goods
ICAO: International Civil Aviation Organisation (IATA: The International Air Transport Association)

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GHS: Globally Harmonized System of Classification, Labelling and Packaging of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS-Nr.: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification | Classification procedure |
|--------------------|--------------------------|
| Flam. Liq. 2; H225 | On basis of test data |
| Eye Irrit. 2; H319 | Calculation method |
| STOT SE 3; H336 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|--------|---|
| H201 | Explosive; mass explosion hazard. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

Safety Data Sheet

according to Regulation (EC) No 1907/2006



YETI LUBE

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

1.1. Product identifier

YETI LUBE

Further trade names

Article number:

550-0000

550-0001

550-0001M

550-0006

550-0018

550-0250

550-6018

555-0000

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

Use of the substance/mixture

To insulate gypsum plaster from wax

1.3. Details of the supplier of the safety data sheet

Company name: YETI Dentalprodukte GmbH

Street: Industriestrasse 3

Place: D-78234 Engen

Telephone: +49 7733-9410-0

Telefax: +49 7733-9410-22

Responsible Department: sdb@yeti-dental.com

Responsible for the safety data sheet: sds@gbk-ingelheim.de

1.4. Emergency telephone

number:

+49 7733-9410-0 (Mo-Do 8:00 - 16:30, Fr 8:00 - 15:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes severe skin burns and eye damage.

Causes serious eye damage.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Sodium tetradecyl sulfate

Signal word: Danger

Pictograms:



Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe mist/vapor/spray.

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| | |
|----------------|--|
| P280 | Wear protective gloves/protective clothing/eye protection/face 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 or shower. |
| P363 | Wash contaminated clothing before reuse. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P310 | 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. |
| P310 | Immediately call a POISON CENTER/doctor. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

Additional advice on labelling

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Complex mixture based on: GLYCERIN / Glycerol.

Hazardous components

| CAS No | Chemical name | Quantity | | |
|----------|---|----------|----------|-------------|
| | EC No | Index No | REACH No | |
| | Classification according to Regulation (EC) No. 1272/2008 [CLP] | | | |
| 139-88-8 | Sodium tetradecyl sulfate | | | 10 - < 25 % |
| | 205-380-3 | | | |
| | Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B; H312 H302 H314 | | | |

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.
In case of irritation consult a physician.

After inhalation

Ensure of fresh air. Get medical attention, if respiratory irritation develops or if breathing becomes difficult. In case of the person being unconscious put him/her in a stable side position.

After contact with skin

Wash off with soap and plenty of water. Consult a doctor if skin irritation persists. Take off contaminated clothing and wash it before reuse.

After contact with eyes

Remove contact lens. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Summon a doctor immediately. Do not give neutralising liquids.

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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: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use fire fighting measures that suit the environment and products stored.

5.2. Special hazards arising from the substance or mixture

None

5.3. Advice for firefighters

No specific precautions required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product. Use personal protection equipment. Keep away noninvolved persons.

6.2. Environmental precautions

Rinse with plenty of water.

Do not discharge into the drains/surface waters/ground water.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Shovel into suitable container for disposal.

Use explosion-proof equipment / fittings and non-sparking tools.

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not keep containers unlocked. Observe the minimum standards in accordance with TRGS 500. Handle in accordance with the general hygienic rules. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Contaminated work clothing should not be allowed out of the workplace. Avoid formation of Aerosols.

Advice on protection against fire and explosion

Vapours are heavier than air. In use, may form flammable/explosive vapour-air mixture. Take precautionary measures against static discharges (earthing (grounding) at pouring).

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Provide solvent-resistant and impermeable floor. Provide floor with bunding. Prevent penetration into the ground. Store in the original container.

Advice on storage compatibility

Keep away from food, drink and animal feeding stuffs. Do not store together with oxidizing and self-igniting products.

Do not store with: Medicinal product, Substances which form flammable gases with water, Organic peroxides.

Further information on storage conditions

Use only in well-ventilated areas. Keep containers tightly closed in a cool, well-ventilated place.

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7.3. Specific end use(s)

Application in the dental field for insulating gypsum plaster from wax

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|---------|----------------|-----|-------------------|-----------|---------------|--------|
| 56-81-5 | Glycerol, mist | - | 10 | | TWA (8 h) | WEL |
| | | - | - | | STEL (15 min) | WEL |

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over the use of personal protective equipment.

Protective and hygiene measures

Avoid contact with eyes and skin. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Take off immediately all contaminated clothing.

Eye/face protection

Tightly fitting goggles (EN 166).

Hand protection

Protective gloves resistant to chemicals made off butyl, minimum coat thickness 0.7 mm, permeation resistance (wear duration) > 240 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de. This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Respiratory protection

Not necessary.

Environmental exposure controls

Do not empty into drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|------------------------------------|
| Physical state: | Liquid |
| Colour: | according to product specification |
| Odour: | Characteristic |

| | |
|----------------------|--------------------|
| | Test method |
| pH-Value (at 20 °C): | 9,5 DIN 19268 |

Changes in the physical state

| | |
|--|-------------------|
| Melting point: | Not determined |
| Initial boiling point and boiling range: | 100 °C |
| Sublimation point: | Not determined |
| Softening point: | Not determined |
| Pour point: | Not determined |
| Flash point: | 160 °C ISO 1523 |
| Sustaining combustion: | No data available |

Flammability

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Solid: Not determined

Gas: Not determined

Explosive properties

The product is not explosive. Heating will cause pressure rise with risk of bursting.

Lower explosion limits: 0,9 vol. %

Upper explosion limits: 11,6 vol. %

Ignition temperature: 400 °C

Auto-ignition temperature

Solid: Not determined

Gas: Not determined

Decomposition temperature: Not determined

Oxidizing properties

Not determined

Vapour pressure: 23 hPa
(at 20 °C)

Vapour pressure: Not determined

Density (at 20 °C): 1,12 g/cm³ ISO 2811-1

Bulk density: Not determined

Water solubility: Completely miscible
(at 20 °C)

Solubility in other solvents

Not determined

Partition coefficient: Not determined

Viscosity / dynamic: Not determined

Viscosity / kinematic: Not determined

Flow time: 20 s 6 DIN 53211/4
(at 20 °C)

Vapour density: Not determined

Evaporation rate: Not determined

Solvent separation test: Not determined

Solvent content: 0%

9.2. Other information

Solid content: 16,5%

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed. Heating will cause pressure rise with risk of bursting.

10.2. Chemical stability

Chemically stable.

10.3. Possibility of hazardous reactions

Not known.

10.4. Conditions to avoid

Avoid temperatures above 35 °C. Protect against direct sun radiation.

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10.5. Incompatible materials

Not known.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

The product:

ATEmix/oral: > 2000 mg/kg (Value calculated)

ATEmix/dermal: > 4500 mg/kg (Value calculated)

| CAS No | Chemical name | | | | |
|----------|---------------------------|--------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 139-88-8 | Sodium tetradecyl sulfate | | | | |
| | oral | ATE mg/kg | 500 | | |
| | dermal | ATE mg/kg | 1100 | | |

Irritation and corrosivity

Causes severe skin burns and eye damage.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Further information

Ingestion of aqueous solution causes gastrointestinal burns.

SECTION 12: Ecological information

12.1. Toxicity

No data available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

12.6. Other adverse effects

No data available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

This material and its container must be disposed of as hazardous waste. If recycling is not practicable, dispose of in compliance with local regulations. The waste code number must be agreed with the disposer / manufacturer.

Waste disposal number of waste from residues/unused products

070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors; hazardous waste

Contaminated packaging


Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Contaminated packagings are to be treated like the product itself.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|--|---|
| 14.1. UN number: | UN 1760 |
| 14.2. UN proper shipping name: | CORROSIVE LIQUID, N.O.S. (Sodium tetradecyl sulfate) |
| 14.3. Transport hazard class(es): | 8 |
| 14.4. Packing group: | III |
| Hazard label: | 8 |
| |  |
| Classification code: | C9 |
| Special Provisions: | 274 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |
| Transport category: | 3 |
| Hazard No: | 80 |
| Tunnel restriction code: | E |

Inland waterways transport (ADN)

| | |
|--|--|
| 14.1. UN number: | UN 1760 |
| 14.2. UN proper shipping name: | CORROSIVE LIQUID, N.O.S. (Sodium tetradecyl sulfate) |
| 14.3. Transport hazard class(es): | 8 |
| 14.4. Packing group: | III |
| Hazard label: | 8 |

| | |
|----------------------|-----|
| Classification code: | C9 |
| Special Provisions: | 274 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |

Marine transport (IMDG)

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14.1. UN number: UN 1760
14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (Sodium tetradecyl sulfate)
14.3. Transport hazard class(es): 8
14.4. Packing group: III
Hazard label: 8



Special Provisions: 223, 274
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1760
14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (Sodium tetradecyl sulfate)
14.3. Transport hazard class(es): 8
14.4. Packing group: III
Hazard label: 8



Special Provisions: A3 A803
Limited quantity Passenger: 1 L
Passenger LQ: Y841
Excepted quantity: E1
IATA-packing instructions - Passenger: 852
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 856
IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

The transport takes place only in approved and appropriate packaging.

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): 0 %
Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water contaminating class (D): 2 - clearly water contaminating

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

Safety Data Sheet

according to Regulation (EC) No 1907/2006



YETI LUBE

Revision date: 01.02.2018

Product code: 11294-0002

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SECTION 16: Other information

Changes

Update 2018

Abbreviations and acronyms

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (Agreement concerning the international carriage of Dangerous goods by Road)

IMDG-Code: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organisation (IATA: The International Air Transport Association)

GHS: Globally Harmonized System of Classification, Labelling and Packaging of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS-Nr.: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification | Classification procedure |
|---------------------|--------------------------|
| Skin Corr. 1B; H314 | Calculation method |
| Eye Dam. 1; H318 | Calculation method |

Relevant H and EUH statements (number and full text)

- | | |
|------|--|
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



Safety Data Sheet according to Regulation (EC) No 1907/2006

YETI Dentalprodukte GmbH

Revision date: 09.05.2016 Revision No: 1,1

Wax- Specialwax (Crowns and Bridges)

11294-0006

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

1.1 Product identifier: Crown and Bridges, Modellingwax

MW = Modellingwax CW = Casting Wax

| | | | | |
|---------------------------|----------------------|----------------------|----------------------|----------------------|
| NAWAC COMPACT MW | 717-5101 | 718-5101 | 719-5101 | |
| IQ ASH-FREE MW | 709-5000 | 710-5000 | 713-5000 | 714-5000 |
| IQ OPAQUE MW | 709-5001 | 710-5001 | 713-5001 | 714-5001 |
| IQ COMPACT ASH-FREE MW | 709-5100 715-5100 | 710-5100 716-5100 | 713-5100 | 714-5100 |
| IQ COMPACT OPAQUE MW | 709-5101 715-5101 | 710-5101 716-5101 | 713-5101 | 714-5101 |
| WAX GIANT single-line MW | 732-5001 | 734-5001 | 736-5000 | |
| WAX GIANT double-line MW | 733-5001 | 735-5001 | 737-5000 | |
| THOWAX MW | 700-0000 711-0000 | 708-0000 712-0000 | 709-0000 713-0000 | 710-0000 714-0000 |
| VKS MW | 710-2000 | 714-2000 | | |
| MONOLITH THOWAX CHIP MW | 710-1000 | 714-1000 | | |
| CONSEQUENT MW (also CW) | 728-0010 | 728-0020 | 728-0030 | |

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

Use of the substance/mixture

Waxes for the preparation of crowns and bridges, model castings and reconstructions

1.3. Details of the supplier of the safety data sheet

Company name: YETI Dentalprodukte GmbH
Street: Industriestrasse 3
Place: D-78234 Engen
Telephone: +49 7733-9410-0
Telefax: +49 7733-9410-22
sdb@yeti-dental.com

Responsible for the safety data sheet: sds@gbk-ingelheim.de

1.4. Emergency telephone number: +49 7733-9410-0 (Mo-Do 8:00 - 16:30, Fr 8:00 - 15:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Additional advice on labelling

The product does not require a hazard warning label in accordance with EC directives.

2.3. Other hazards According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

Safety Data Sheet according to Regulation (EC) No 1907/2006

YETI Dentalprodukte GmbH

Revision date: 09.05.2016 Revision No: 1,1

Wax- Specialwax (Crowns and Bridges)

11294-0006

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of different waxes with additives.

Hazardous components: not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

General Information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove contaminated soaked clothing immediately. Keep warm and calm injured person. Take away from danger area and lay down affected person.

After Inhalation

When used as intended, exposure through inhalation is not to be expected

After contact with skin

Wash off with soap and plenty of water.

Consult a doctor if skin irritation persists.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Summon a doctor immediately. Do not give neutralising liquids.

4.2. Most important symptoms and effects, both acute and delayed

Health injuries are not known or expected under normal use.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), water-spray.

Unsuitable extinguishing media

Full water jet

.

5.2. Special hazards arising from the substance or mixture

Fire may produce: Carbon monoxide and carbon dioxide. Vapours are heavier than air and spread along ground .

Flashback at a long distance is possible.

5.3. Advice for firefighters

Use breathing apparatus with independent air supply.

Protective suit.

Additional information

Cool containers at risk with water spray jet. 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

In case of vapour formation use respirator. Ensure adequate ventilation. Use personal protective clothing. Get unprotected persons to safety. Keep away from heat and sources of ignition. Avoid contact with the skin and the eyes. Do not inhale vapour/aerosol.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water. Risk of explosion.

6.3. Methods and material for containment and cleaning up

Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).
Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not keep containers unlocked. Handle in accordance with the general hygienic rules. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Contaminated work clothing should not be allowed out of the workplace. Avoid formation of Aerosols.

Advice on protection against fire and explosion

No special protective measures against fire required.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

No special precautions required.

Advice on storage compatibility

Keep away from food, drink and animal feeding stuffs. Do not store together with oxidizing and self-igniting products. Do not store with: oxidizing substances.

Further information on storage conditions

Use only in well-ventilated areas. Keep containers tightly closed in a cool, well-ventilated place. Protect from heat and direct solar radiation

7.3. Specific end use(s)^

Waxes for the preparation of crowns and bridges, model castings and reconstructions

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|-----------|--------------------|-----|-------------------|-----------|---------------|--------|
| 8002-74-2 | Paraffin wax, fume | - | 2 | | TWA (8 h) | WEL |
| | | - | 6 | | STEL (15 min) | WEL |

8.2. Exposure controls



Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over the use of personal protective equipment. Ensure adequate ventilation. Provide sufficient air exchange and/or exhaust in work rooms.

Protective and hygiene measures

Avoid contact with eyes and skin. Wash hands before breaks and immediately after handling the product . When using do not eat, drink or smoke. Take off immediately all contaminated clothing.

Eye/face protection

Tightly fitting goggles (EN 166). Eye wash bottle with pure water (EN 15154).

Hand protection

Protective gloves resistant to chemicals made off butyl, minimum coat thickness 0,7 mm, permeation resistance (wear duration) > 240 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Skin protection

Long sleeved clothing (EN 368). Wear fire retardant protective coveralls. Take precautions against electrostatic discharges.

Respiratory protection

In case of vapour / mist formation use respirator. (Full mask, filter A).

Environmental exposure controls

Do not empty into drains Explosion risk.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|------------------------------------|
| Physical state: | Solid matter |
| Colour: | according to product specification |
| Odour: | faint |
| pH-Value: | n.a. |

Changes in the physical state

| | | |
|--|-------------------------------|-----------|
| Melting point: | n.d. | |
| Initial boiling point and boiling range: | n.d. | |
| Softening point: | n.d. | |
| Drop point: | 70 - 110 °C | DIN 2176 |
| Flash point: | > 140 °C | ISO 1523 |
| Flammability Solid: | n.d. | |
| Explosive properties | The product is not explosive. | |
| Lower explosion limits: | n.d. | |
| Upper explosion limits: | n.d. | |
| Ignition temperature: | n.d. | |
| Auto-ignition temperature Solid: | n.d. | |
| Oxidizing properties: | n.d. | |
| Vapour pressure: | (at 20 °C) n.d. | |
| Density (at 20 °C): | 0,9 g/cm ³ | DIN 53217 |
| Water solubility: | Partially miscible | |
| Solubility in other solvents | n.d. | |
| Viscosity / dynamic: (at 20 °C) | > 50 mPa·s | DIN 53019 |
| Viscosity / kinematic: | n.d. | |
| Flow time: | n.d. | |
| Vapour density: | n.d. | |
| Solvent content: | 0% | |

9.2. Other information

Other information
(n.a. = not applicable; n.d. = not determined)

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed. If heating up polymerisation.

10.2. Chemical stability

Chemically stable.

10.3. Possibility of hazardous reactions

Heating can release vapours which can be ignited.

10.4. Conditions to avoid

Protect from heat and direct solar radiation.

10.5. Incompatible materials

Oxidizing agents (strong)..

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

Conclusion by analogy (QSAR):

LD50/oral/rat: > 2000 mg/kg

LD50/dermal/rabbit: > 2000 mg/kg

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Not determined

12.2. Persistence and degradability

Not determined

12.3. Bioaccumulative potential

Not determined

12.4. Mobility in soil

Not determined

12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

12.6. Other adverse effects

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely. Elimination essentially by adsorption to activated sludge.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

This material and its container must be disposed of as hazardous waste. If recycling is not practicable, dispose of in compliance with local regulations. The waste code number must be agreed with the disposer / manufacturer.

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Contaminated packagings are to be treated like the product itself. Recommended cleaning agent: water with detergents.

Safety Data Sheet according to Regulation (EC) No 1907/2006

YETI Dentalprodukte GmbH

Revision date: 09.05.2016 Revision No: 1,1

Wax- Specialwax (Crowns and Bridges)

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SECTION 14: Transport information

Land transport (ADR/RID); Marine transport (IMDG); Air transport (ICAO); Inland waterways transport (ADN)

14.1. UN number:

Not applicable. No hazardous material as defined by the transport regulations.

14.2. UN proper shipping name:

Not applicable. No hazardous material as defined by the transport regulations.

14.3. Transport hazard class(es):

Not applicable. No hazardous material as defined by the transport regulations.

14.4. Packing group:

Not applicable. No hazardous material as defined by the transport regulations.

14.5. Environmental hazards

Not applicable. No hazardous material as defined by the transport regulations.

14.6. Special precautions for user

Not applicable. No hazardous material as defined by the transport regulations.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable. No hazardous material as defined by the transport regulations.

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): 0 %

Additional information

The product is labeled in accordance with Regulation (EC) no. 1272/2008 (GHS).

National regulation information

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

Safety Data Sheet according to Regulation (EC) No 1907/2006

YETI Dentalprodukte GmbH

Revision date: 09.05.2016 Revision No: 1,1

Wax- Specialwax (Crowns and Bridges)

11294-0006

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet)



Safety Data Sheet according to Regulation (EC) No 1907/2006

YETI Dentalprodukte GmbH

Revision date: 09.05.2016 Revision No: 1,1

Wax – Special Wax (Dipping Wax, Wax Wire, Cutex- Undercut Wax, Diagnostic, Prefabricated Products, special applications)

11294-0006

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

1.1 Product identifier: Special applications

| | | | | | |
|--------------------------|----------|----------|----------|----------|----------------|
| Peripheriewax | 602-0360 | | | | |
| Boxing Wax | 603-0400 | | | | |
| THOWAX Cervical | 720-0000 | 720-1000 | | | |
| IQ Cervical | 720-5000 | 720-5100 | | | |
| THOWAX Undercut Wax | 722-0000 | 722-1000 | | | |
| VKS Undercut Wax | 722-2000 | | | | |
| IQ Undercut Wax | 722-5000 | 722-5100 | | | |
| CUTEX | 723-0000 | | | | |
| CUTEX BOND | 723-1000 | | | | |
| Stick on Wax | 724-0000 | | | | |
| THOWAX Milling Wax | 725-0000 | 727-0000 | 725-1000 | | |
| THOWAX STICK-on | 726-0000 | | | | |
| GIANT Cervical | 731-5000 | | | | |
| PRECI DIP | 740-1150 | 740-2150 | | | |
| DUO DIP | 741-0000 | | | | |
| MASTER DIP | 741-0100 | 741-0110 | | | |
| DETON Wax Wire | 741-2500 | 742-3000 | 743-3500 | 744-4000 | 745-5000 |
| DURON Wax Wire | 746-1020 | 746-1025 | 746-1030 | 746-1035 | 746-1040 |
| | 746-1050 | | | | |
| CONSEQUENT WD | 747-1020 | 747-1025 | 747-1030 | 747-1035 | 747-1040 |
| | 747-1050 | | | | |
| ELASTO DIP | 750-0150 | 750-2150 | 750-3150 | 750-4150 | |
| GUSSSTIFTE | 754-0250 | 755-0250 | 756-0250 | 757-0250 | |
| IQ TRIANGEL | 758-5000 | 759-5000 | | | |
| CREATION | 760-0000 | 760-1000 | 760-2000 | 760-3000 | 760-00 (10-25) |
| IQ DIAGNOSTIC | 761-5000 | | | | |
| IQ QUADRO STICKS | 765-5000 | 766-5000 | 767-5000 | | |
| IQ STICKS | 768-2500 | 768-3000 | 768-3500 | 768-4000 | 768-5000 |
| ZWISCHENGLIEDER | 770-0000 | 771-0000 | 772-0000 | 773-0000 | 774-0000 |
| (Prefabricated Products) | 775-0000 | 776-0000 | 777-0000 | | |

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

Waxes for the preparation of crowns and bridges, model castings and reconstructions

1.3. Details of the supplier of the safety data sheet

Company name: YETI Dentalprodukte GmbH
Street: Industriestrasse 3
Place: D-78234 Engen
Telephone: +49 7733-9410-0
Telefax: +49 7733-9410-22

Responsible for the safety data sheet: sdb@yeti-dental.com
sds@gbk-ingelheim.de

1.4. Emergency telephone number: +49 7733-9410-0 (Mo-Do 8:00 - 16:30, Fr 8:00 - 15:00)

Safety Data Sheet according to Regulation (EC) No 1907/2006

YETI Dentalprodukte GmbH

Revision date: 09.05.2016 Revision No: 1,1

Wax – Special Wax (Dipping Wax, Wax Wire, Cutex- Undercut Wax, Diagnostic, Prefabricated Products, special applications)

11294-0006

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Additional advice on labelling

The product does not require a hazard warning label in accordance with EC directives.

2.3. Other hazards According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a

PBT / vPvB substance.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of different waxes with additives.

Hazardous components: not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

General Information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove contaminated soaked clothing immediately. Keep warm and calm injured person. Take away from danger area and lay down affected person.

After Inhalation

When used as intended, exposure through inhalation is not to be expected

After contact with skin

Wash off with soap and plenty of water.

Consult a doctor if skin irritation persists.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Summon a doctor immediately. Do not give neutralising liquids.

4.2. Most important symptoms and effects, both acute and delayed

Health injuries are not known or expected under normal use.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), water-spray.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Fire may produce: Carbon monoxide and carbon dioxide. Vapours are heavier than air and spread along ground .

Flashback at a long distance is possible.

5.3. Advice for firefighters

Use breathing apparatus with independent air supply.

Protective suit.

Safety Data Sheet according to Regulation (EC) No 1907/2006

YETI Dentalprodukte GmbH

Revision date: 09.05.2016 Revision No: 1,1

Wax – Special Wax (Dipping Wax, Wax Wire, Cutex- Undercut Wax, Diagnostic, Prefabricated Products, special applications)

11294-0006

Additional information

Cool containers at risk with water spray jet. 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

In case of vapour formation use respirator. Ensure adequate ventilation. Use personal protective clothing. Get unprotected persons to safety. Keep away from heat and sources of ignition. Avoid contact with the skin and the eyes. Do not inhale vapour/aerosol.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water. Risk of explosion.

6.3. Methods and material for containment and cleaning up

Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not keep containers unlocked. Handle in accordance with the general hygienic rules. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Contaminated work clothing should not be allowed out of the workplace. Avoid formation of Aerosols.

Advice on protection against fire and explosion

No special protective measures against fire required.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

No special precautions required.

Advice on storage compatibility

Keep away from food, drink and animal feeding stuffs. Do not store together with oxidizing and self-igniting products. Do not store with: oxidizing substances.

Further information on storage conditions

Use only in well-ventilated areas. Keep containers tightly closed in a cool, well-ventilated place. Protect from heat and direct solar radiation

7.3. Specific end use(s)^

Waxes for the preparation of crowns and bridges, model castings and reconstructions

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|-----------|--------------------|-----|-------------------|-----------|---------------|--------|
| 8002-74-2 | Paraffin wax, fume | - | 2 | | TWA (8 h) | WEL |
| | | - | 6 | | STEL (15 min) | WEL |

Safety Data Sheet according to Regulation (EC) No 1907/2006

YETI Dentalprodukte GmbH

Revision date: 09.05.2016 Revision No: 1,1

Wax – Special Wax (Dipping Wax, Wax Wire, Cutex- Undercut Wax, Diagnostic, Prefabricated Products, special applications)

11294-0006

8.2. Exposure controls



Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over the use of personal protective equipment. Ensure adequate ventilation. Provide sufficient air exchange and/or exhaust in work rooms.

Protective and hygiene measures

Avoid contact with eyes and skin. Wash hands before breaks and immediately after handling the product . When using do not eat, drink or smoke. Take off immediately all contaminated clothing.

Eye/face protection

Tightly fitting goggles (EN 166). Eye wash bottle with pure water (EN 15154).

Hand protection

Protective gloves resistant to chemicals made off butyl, minimum coat thickness 0,7 mm, permeation resistance (wear duration) > 240 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de. This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Skin protection

Long sleeved clothing (EN 368). Wear fire retardant protective coveralls. Take precautions against electrostatic discharges.

Respiratory protection

In case of vapour / mist formation use respirator. (Full mask, filter A).

Environmental exposure controls

Do not empty into drains Explosion risk.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|------------------------------------|
| Physical state: | Solid matter |
| Colour: | according to product specification |
| Odour: | faint |
| pH-Value: | n.a. |

Safety Data Sheet according to Regulation (EC) No 1907/2006

YETI Dentalprodukte GmbH

Revision date: 09.05.2016 Revision No: 1,1

Wax – Special Wax (Dipping Wax, Wax Wire, Cutex- Undercut Wax, Diagnostic, Prefabricated Products, special applications)

11294-0006

Changes in the physical state

| | | |
|--|-------------------------------|-----------|
| Melting point: | n.d. | |
| Initial boiling point and boiling range: | n.d. | |
| Softening point: | n.d. | |
| Drop point: | 70 - 110 °C | DIN 2176 |
| Flash point: | > 140 °C | ISO 1523 |
| Flammability Solid: | n.d. | |
| Explosive properties | The product is not explosive. | |
| Lower explosion limits: | n.d. | |
| Upper explosion limits: | n.d. | |
| Ignition temperature: | n.d. | |
| Auto-ignition temperature Solid: | n.d. | |
| Oxidizing properties: | n.d. | |
| Vapour pressure: | (at 20 °C) n.d. | |
| Density (at 20 °C): | 0,9 g/cm ³ | DIN 53217 |
| Water solubility: | Partially miscible | |
| Solubility in other solvents | n.d. | |
| Viscosity / dynamic: (at 20 °C) | > 50 mPa·s | DIN 53019 |
| Viscosity / kinematic: | n.d. | |
| Flow time: | n.d. | |
| Vapour density: | n.d. | |
| Solvent content: | 0% | |

9.2. Other information

Other information

(n.a. = not applicable; n.d. = not determined)

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed. If heating up polymerisation.

10.2. Chemical stability

Chemically stable.

10.3. Possibility of hazardous reactions

Heating can release vapours which can be ignited.

10.4. Conditions to avoid

Protect from heat and direct solar radiation.

10.5. Incompatible materials

Oxidizing agents (strong)..

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

Conclusion by analogy (QSAR):

LD50/oral/rat: > 2000 mg/kg

LD50/dermal/rabbit: > 2000 mg/kg

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Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Not determined

12.2. Persistence and degradability

Not determined

12.3. Bioaccumulative potential

Not determined

12.4. Mobility in soil

Not determined

12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

12.6. Other adverse effects

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely. Elimination essentially by adsorption to activated sludge.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

This material and its container must be disposed of as hazardous waste. If recycling is not practicable, dispose of in compliance with local regulations. The waste code number must be agreed with the disposer / manufacturer.

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Contaminated packagings are to be treated like the product itself. Recommended cleaning agent: water with detergents.

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SECTION 14: Transport information

Land transport (ADR/RID); Marine transport (IMDG); Air transport (ICAO); Inland waterways transport (ADN)

14.1. UN number:

Not applicable. No hazardous material as defined by the transport regulations.

14.2. UN proper shipping name:

Not applicable. No hazardous material as defined by the transport regulations.

14.3. Transport hazard class(es):

Not applicable. No hazardous material as defined by the transport regulations.

14.4. Packing group:

Not applicable. No hazardous material as defined by the transport regulations.

14.5. Environmental hazards

Not applicable. No hazardous material as defined by the transport regulations.

14.6. Special precautions for user

Not applicable. No hazardous material as defined by the transport regulations.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable. No hazardous material as defined by the transport regulations.

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): 0 %

Additional information

The product is labeled in accordance with Regulation (EC) no. 1272/2008 (GHS).

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

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EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet)