

Stumpflacke - Spacer

11294-0003

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

1.1. Product identifier

Stumpflacke - Spacer

Article number:

500-0001

500-0006

500-0001M

501-0001

501-0006

501-0001M

502-0001

502-0006

502-0001M

503-0001

503-0006

503-0001M

504-0001

504-0006

504-0001M

505-0001

505-0006

505-0001M

506-0001

506-0006

506-0001M

507-0001

507-0006

507-0001M

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

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

number:

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

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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.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
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/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.

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

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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

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).

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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	
pH-Value (at 20 °C):	n.a.	DIN 19268
Changes in the physical state		
Melting point:	n.d.	
Initial boiling point and boiling range:	(697 hPa) 55 °C	
Sublimation point:	n.d.	
Softening point:	n.d.	
Pour point:	n.d.	
Flash point:	-18 °C	ISO 1523
Sustaining combustion:	No data available	
Flammability		
Solid:	n.d.	
Gas:	n.d.	
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:	n.d.	
Auto-ignition temperature		
Solid:	n.d.	
Gas:	n.d.	
Decomposition temperature:	n.d.	
Oxidizing properties	n.d.	
Vapour pressure: (at 20 °C)	2470 hPa	berechnet
Vapour pressure:	n.d.	
Density (at 20 °C):	n.d.	
Bulk density:	n.d.	
Water solubility: (at 20 °C)	Partially miscible	

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Solubility in other solvents	n.d.	
Partition coefficient:	n.d.	
Viscosity / dynamic:	n.d.	
Viscosity / kinematic:	n.d.	
Flow time: (at 23 °C)	20 s	4 DIN 53211
Vapour density:	n.d.	
Evaporation rate:	n.d.	
Solvent separation test:	n.d.	
Solvent content:	> 75%	

9.2. Other information

Solid content: n.d.

Other information

No data available.

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

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	Method	Dose	Species	Source
141-78-6	ethyl acetate				
	oral	LD50	5620 mg/kg	Rat	
	dermal	LD50 mg/kg	> 18000	Rabbit	
123-86-4	n-butyl acetate				
	oral	LD50	10800 mg/kg	Rat	
	dermal	LD50 mg/kg	> 17600	Rabbit	
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50	5050 mg/kg	Rat	
	dermal	LD50	12800 mg/kg	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.

STOT-single exposure

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

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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.

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	Method	Dose	[h] [d]	Species	Source
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
Classified as 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

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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
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

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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

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

Section: 8,11

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%

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.)