

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

FINOWAX Punched retention

REF 30880 / 30895

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

Wax-up of partial denture frames.

1.3. Details of the supplier of the safety data sheet

Company name:	FINO GmbH	
Street:	Mangelsfeld 18	
Place:	D-97708 Bad Bocklet	
Telephone:	+49-97 08-90 94 20	Telefax: +49-97 08-90 94 21
e-mail:	info@fino.com	Internet: www.fino.com
Contact person:	Joachim Mahlmeister	Telephone: +49-97 08-90 94 20
e-mail:	info@fino.com	
Responsible Department:	This number can only be reached during our office hours, Monday to Friday from 8 a.m. to 5 p.m.	

1.4. Emergency telephone number:

+49-89-1 92 40
POISON CENTER München
24 hour(s) 7 day(s)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

none

Special labelling of certain mixtures

There is no requirement for the product to be specially labelled according to EC directives or the corresponding national laws. no restriction

Additional advice on labelling

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.3. Other hazards

No risks worthy of mention.

Low risk. Product can form ignitable mixtures or can burn if it is heated to temperatures above the flame point.

The substances in the mixture do not meet the PBT/VPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Composition of saturated aliphatic hydrocarbons, saturated aliphatic hydrocarbon compounds, natural waxes.

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
8002-74-2	Paraffin wax, hard			30 %
	232-315-6			

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

Further Information

Void

SECTION 4: First aid measures
4.1. Description of first aid measures
General information

Burns caused by molten material must be treated clinically.

After inhalation

No specific if used according to specifications.

After contact with skin

After contact with molten product, cool skin area rapidly with cold water.

Immerse in cold water for a prolonged period. Medical treatment necessary.

Do not attempt to remove the substance or the sticking clothing from the skin because this may destroy the damaged body tissue.

Seek medical attention if problems persist.

After contact with eyes

Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Do NOT induce vomiting. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

No specific if used according to specifications.

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

Treat symptomatically.

SECTION 5: Firefighting measures
5.1. Extinguishing media
Suitable extinguishing media

Foam, Dry extinguishing powder, Carbon dioxide (CO₂), Sand

Unsuitable extinguishing media

Never use water.

5.2. Special hazards arising from the substance or mixture

In case of fire carbon monoxide can be released. Reignition possible over considerable distance.

5.3. Advice for firefighters

Breathing equipment and PSA required for fire fighting personnel. In case of fire: Wear self-contained breathing apparatus.

Additional information

Residues of burned materials and fire water must be disposed in accordance with magisterial regulations. Cool

containers at risk with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Use appropriate respiratory protection. Provide adequate ventilation. Use personal protection equipment. Keep away from heat. Keep away from sources of ignition - No smoking. Do not breathe vapour/aerosol.

For non-emergency personnel

Emergency procedures

Remove persons to safety. Remove victim out of the danger area.

The danger areas must be delimited and identified using relevant warning and safety signs.

For emergency responders

Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter sewers/surface or ground water.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Take up mechanically.

For cleaning up

Collect in closed and suitable containers for disposal.

Wash contaminated clothing before reuse.

Other information

Let hot product cool down. Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Treat the recovered material as prescribed in the section on waste disposal. Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with hot wax. Do not leave delivered containers and mixing containers open. Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace.

Advice on protection against fire and explosion

Keep away from sources of ignition.

Advice on general occupational hygiene

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from food, drink and animal feedingstuffs.

Wash hands before breaks and after work.

When using do not eat or drink.

Take off immediately all contaminated clothing.

Further information on handling

No special handling advices are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store under normal and dry conditions.

Store and transport in a cool and dry environment and place if possible in a flat position (to protect the wax parts from deformation).

Protect open packages from UV-radiation.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Do not store together with fire-entertaining and auto-ignitable substances or flammable solids.

Further information on storage conditions

Store in a well-ventilated place. Keep cool.

Betriebssicherheitsverordnung (BetrSichV) ---

7.3. Specific end use(s)

Waxes for the C+B technique.

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

Additional advice on limit values

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2. Exposure controls



Appropriate engineering controls

For heated product: Avoid formation of wax vapours and fogs as far as possible. If this is not possible take care of sufficient ventilation, use extraction if applicable.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Wear suitable gloves. Breakthrough times and swelling properties of the material must be taken into consideration.

Protect skin by using skin protective cream.

After cleaning apply high-fat content skin care cream.

Skin protection

lab coat

Take action to prevent static discharges.

Respiratory protection

Wear suitable occupational clothing when working with wax.

Filtering device (full mask or mouthpiece) with filter:

Environmental exposure controls

Do not allow to enter sewers/surface or ground water.

Danger of explosion

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:

solid

Colour:

red

Odour: typical

Test method
Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not applicable
Softening point:	not determined
Drop point/drop range:.	70-110 °C DIN ISO 2176
Flash point:	210 - 220 °C DIN 51376

Flammability

Solid/liquid: not determined

Explosive properties

not explosive.

Lower explosion limits: ---

Upper explosion limits: ---

Auto-ignition temperature: not applicable

Self-ignition temperature

Solid: not applicable

Decomposition temperature: not determined

pH-Value: not applicable

 Viscosity / dynamic:
(at 20 °C) > 50 mPa·s DIN 53019

Viscosity / kinematic: not determined

 Water solubility:
(at 20 °C) The study does not need to be conducted because the substance is known to be insoluble in water.

Vapour pressure: not determined

Density: 0,9 g/cm³ DIN 53217

Relative vapour density: not applicable

9.2. Other information
Information with regard to physical hazard classes

Sustaining combustion: No data available

 Oxidizing properties
no classification

Other safety characteristics

Solvent content: not applicable

Solid content: not determined

Evaporation rate: not applicable

Further Information

No data available.

SECTION 10: Stability and reactivity
10.1. Reactivity

No information available.

10.2. Chemical stability

No data available.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

No specific if used according to specifications.

10.5. Incompatible materials

Oxidising agent, strong, Fluor

10.6. Hazardous decomposition products

No decomposition if used according to specifications.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

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

ATEmix tested

	Dose	Species	Source
LD50, oral	>2000 mg/kg	Rat	
LD50, dermal	>2000 mg/kg	Rabbit	

Irritation and corrosivity

Based on available data, the classification criteria are not met.
No irritant effect.

Sensitising effects

Based on available data, the classification criteria are not met.
No sensitizing effect known.

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.

Additional information on tests

Based on our experiences and information the product does not cause harmful health effects if handled according to specifications and used according to indications.

Practical experience

No special references.

11.2. Information on other hazards**Other information**

No special precautionary measures.

SECTION 12: Ecological information**12.1. Toxicity**

If used and handled pertinently ecological problems are not to expect.
Sludge treatment e.g. thermal sludge reduction

12.2. Persistence and degradability

Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants. Poorly biodegradable.

12.3. Bioaccumulative potential

If used in accordance with specifications no environmental effects are to expect.

12.4. Mobility in soil

not determined

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

If used and handled pertinently ecological problems are not to expect.

12.7. Other adverse effects

No classification known.

Further information

Do not allow uncontrolled discharge of product into the environment.

Water hazard class non-hazardous to water

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

hazardous waste Dispose of waste according to applicable legislation. The waste code has to be identified in agreement with the disposal company or the competent authority.

List of Wastes Code - residues/unused products

040210 WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES; wastes from the textile industry; organic matter from natural products (for example grease, wax)

List of Wastes Code - used product

040210 WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES; wastes from the textile industry; organic matter from natural products (for example grease, wax)

Contaminated packaging

Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

Recycle sales packaging via DSD (Duales System Deutschland).

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number or ID number:	UN 0000
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number:	UN 0000
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number:	UN 0000
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN 0000
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No special measures are necessary.

14.7. Maritime transport in bulk according to IMO instruments

not applicable No dangerous good in sense of these 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): none
Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)
Additional information: 0

Additional information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

Additional information

Betriebssicherheitsverordnung (BetrSichV) ---
No further data.

15.2. Chemical safety assessment

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

SECTION 16: Other information**Changes**

* Data changed compared with the previous version.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
ISO: International organization for standardization.
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
PBT: Persistent, Bioaccumulative and Toxic
LD50: Lethal dose, 50 percent
LC50: Lethal concentration, 50 percent
EC50: Median effective concentration

Further Information

The above information describes exclusively the safety requirements of the product and is based on our

present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	wax	-	20	0	0	-	-	-	64742-43-3

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions

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