

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

FINOWAX Wax Sticks

REF 31151 / 31153 / 31155

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

Pinning of cast objects in the crown, bridge and model casting technique.

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.

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

Preparation of mineral waxes, synthetic hydrocarbon waxes and polyterpene coloured.

Hazardous components

none (according to UK REACH Regulation)

SECTION 4: First aid measures**4.1. Description of first aid measures**

General information

The melted product can cause severe burns.
Seek medical attention if problems persist.

After inhalation

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.
Seek medical attention if problems persist.

After contact with skin

After contact with molten product, cool skin area rapidly with cold water. Burns caused by molten material must be treated clinically.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water.
Seek medical attention if problems persist.

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

No information available.

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

No information available.

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

Co-ordinate fire-fighting measures to the fire surroundings.
Foam, Carbon dioxide (CO₂), Dry extinguishing powder, Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Crack gases, carbon oxides.
Precipitate combustion gases with water spray.

5.3. Advice for firefighters

Overalls against heat radiation.
In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Do not breathe vapour/aerosol.
Provide adequate ventilation.

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

Allow stiffening. Take up mechanically.

Collect in closed and suitable containers for disposal.

Wash contaminated clothing before reuse.

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**

Do not overheat 230 °C

Advice on protection against fire and explosion

No special fire protection measures are necessary.

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.

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.

Further information on storage conditions

Do not store at temperatures above: 40 °C

Betriebssicherheitsverordnung (BetrSichV) ---

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist. Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2. Exposure controls**Appropriate engineering controls**

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Eye protection: not required.

Hand protection

Protect skin by using skin protective cream. After cleaning apply high-fat content skin care cream.

Wear protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Thickness of the glove material:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Breakthrough time::

The precise time of rupture can be found out from the manufacturer of the protective gloves and must be observed.

Skin protection

lab coat

Respiratory protection

Respiratory protection not required.

Thermal hazards

Hot wax may cause burns.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	blue
Odour:	odourless

Test method
Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Softening point:	not applicable
Solidifying point::	84 °C DGF M III 4a
Flash point:	> 200 °C

Flammability

Solid/liquid:	not determined
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Explosive properties

not explosive.

Lower explosion limits:	---
Upper explosion limits:	---
Auto-ignition temperature:	not determined

Self-ignition temperature

Solid:	> 300 °C
Decomposition temperature:	not determined
pH-Value:	not applicable
Viscosity / dynamic:	not applicable

Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.
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Partition coefficient n-octanol/water:	not determined
Vapour pressure: (at 25 °C)	< 0,01 hPa
Density:	~0,94 g/cm ³
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:	100%
Evaporation rate:	not applicable

Further Information**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

Do not overheat (> 130 °C).

10.5. Incompatible materials

Not known.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

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.

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.

The product does not contain sensitising substances according to Ordinance on Hazardous Materials (GefStoffV).

Carcinogenic/mutagenic/toxic effects for reproduction

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

The product does not contain substances, which pass as carcinogenic, mutagen or reproduction endangering according to Ordinance on Hazardous Materials (GefStoffV).

STOT-single exposure

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

No data available STOT-single exposure.

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.

Specific effects in experiment on an animal

Toxicological data are not available.

Additional information on tests

The product is not liable to marking based on the evaluation procedure of the general Directive for Classification of Preparations of the EC in the lasted valid version.

Practical experience

No special references.

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

No special precautionary measures.

Further information

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

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

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

12.2. Persistence and degradability

Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants. According to experiences this product is inert and not degradable.

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

12.4. Mobility in soil

Poorly watersoluble, inorganic product. Can be mechanically precipitated to a large extent in biological sewage plants.

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.

12.7. Other adverse effects

No effects known.

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

Can be incinerated together with household waste in compliance with applicable technical regulations following consultation with approved waste disposal management companies and authorities in charge.

List of Wastes Code - contaminated packaging

030308 WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD; wastes from pulp, paper and cardboard production and processing; wastes from sorting of paper and cardboard destined for recycling

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.
14.4. Packing group:	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

No special precautionary measures.

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

According to EC directives or the corresponding national regulations the product does not have to be labelled.
The product does not have to be labelled according to guideline 67/548/EEC.

National regulatory information

Water hazard class (D): -- non-hazardous to water

Additional information

Betriebssicherheitsverordnung (BetrSichV) ---
No further data.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

* Data changed compared with the previous version.

Abbreviations and acronyms

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 "IATA-DGR: Dangerous Goods Regulations by the ""International Air Transport Association"" (IATA)"
 ICAO: International Civil Aviation Organization
 "ICAO-TI: Technical Instructions by the ""International Civil Aviation Organization"" (ICAO)"
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 VOC: Volatile Organic Compounds (USA, EU)
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent

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.)