

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

FINOPEARL Retention adhesive

Print date: 04.03.2016

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

FINOPEARL Retention adhesive  
Article numbers: 20672  
**Further trade names**  
XYLENE  
MIBK  
Product group: Kohlenwasserstoffe, gesä.

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

Use of the substance/mixture	Uses advised against
Coatings and paints, fillers, putties, thinners for manufacturing mechanic retentions for veneers in the crown and bridge technique.	No further relevant information available.

**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
Contact person:	Joachim Mahlmeister	Telephone:	+49-97 08-90 94 20
e-mail:	info@fino.com	Internet:	www.fino.com

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC**

Indications of danger: F - Highly flammable, Xi - Irritant  
R phrases:  
Highly flammable.  
Harmful by inhalation and in contact with skin.  
Irritating to eyes, respiratory system and skin.

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard categories:  
Flammable liquid: Flam. Liq. 3  
Serious eye damage/eye irritation: Eye Irrit. 2  
Specific target organ toxicity - single exposure: STOT SE 3  
Hazard Statements:  
Flammable liquid and vapour.  
May cause respiratory irritation.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

**2.2. Label elements****Hazardous components which must be listed on the label**

n-butyl acetate

Signal word: Danger  
Pictograms: GHS02-GHS07

**Hazard statements**

H226	Flammable liquid and vapour.
H335	May cause respiratory irritation.
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.
P261	Avoid breathing Vapour .
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P370+P378 In case of fire: Use Dry sand, Extinguishing powder, alcohol resistant foam to extinguish.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Special labelling of certain mixtures**

EUH066 Repeated exposure may cause skin dryness or cracking.

**Additional advice on labelling**

The product is classified and labelled according to EC directives or corresponding national laws.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

**2.3. Other hazards**

The information is based on the present state of our knowledge and apply to the product as it is delivered. No risks worthy of mention. Please observe the information on the safety data sheet at all times.

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

Industrial sector specific solutions Mixture from the below listed substances with harmless additives.

Sum formula: C<sub>8</sub>H<sub>10</sub>  
 Molecular weight: 106,17 g/mol

**Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
204-658-1	n-butyl acetate	>= 30 - < 50 %
123-86-4	R10-66-67	
607-025-00-1	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066	
203-550-1	4-methylpentan-2-one, isobutyl methyl ketone	>= 20 - < 25 %
108-10-1	F - Highly flammable, Xn - Harmful, Xi - Irritant R11-20-36/37-66	
606-004-00-4	Flam. Liq. 2, Acute Tox. 4, Eye Irrit. 2, STOT SE 3; H225 H332 H319 H335 EUH066	
203-631-1	cyclohexanone	>= 5 - < 10 %
108-94-1	Xn - Harmful R10-20	
606-010-00-7	Flam. Liq. 3, Acute Tox. 4; H226 H332	

Full text of R-, H- and EUH-phrases: see section 16.

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

Consult physician if symptoms appear or if in doubt.  
 Remove affected person from the danger area and lay down.  
 No administration in cases of unconsciousness or cramps.

**After inhalation**

Move victim to fresh air. Put victim at rest and keep warm.  
 In case of irregular respiration or respiratory arrest apply artificial respiration.  
 If unconscious place in recovery position and seek medical advice.

**After contact with skin**

Remove contaminated, saturated clothing immediately.  
 After contact with skin, wash immediately with plenty of water and soap.  
 Do not use solvents or thinners!

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.  
 Call a physician immediately.  
 Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion**

Rinse mouth thoroughly with water.  
 Do NOT induce vomiting.

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Call a physician immediately.

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

No further relevant information available.

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

Description of first aid measures

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. When in doubt or if symptoms are observed, get medical advice.

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

Water spray jet, alcohol resistant foam, Dry extinguishing powder, Carbon dioxide (CO<sub>2</sub>)

Use water spray jet to protect personnel and to cool endangered containers.

**Unsuitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

In case of fire thick, black fumes will form. Thermal decomposition may cause generation of irritant and harmful gases, so firefighters should wear proper protective equipment. Danger of serious damage to health by prolonged exposure.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

Use water spray jet to protect personnel and to cool endangered containers.

Contaminated fire-fighting water must be collected separately. Residues of burned materials and fire water must be disposed in accordance with magisterial regulations.

**Additional information**

Do not empty into drains; dispose of this material and its container in a safe way.

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

Vapours are heavier than air and will spread at floor level. Provide adequate ventilation.

Wear personal protection equipment.

Remove persons to safety.

Keep away from unprotected people. Keep upwind. Ventilate affected area.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**6.3. Methods and material for containment and cleaning up**

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

Clean with detergents. Avoid solvent cleaners. Clear contaminated areas thoroughly. Collect in closed containers for disposal.

**6.4. Reference to other sections**

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

See protective measures under point 7 and 8.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

Avoid contact with skin and eyes.

Do not eat, drink or smoke when using this product.

Do not breathe gas/fumes/vapour/spray.

Wear personal protection equipment.

After use replace the closing cap immediately. Keep container tightly closed.

**Advice on protection against fire and explosion**

Avoid the formation of combustible and explosion-capable solvent fumes in air and an excess of MAK-thresholds. Take precautionary measures against static discharges. Use only antistatically equipped (spark-free) tools. Only use the material in places where open light, fire and other flammable sources can be kept away. When using do not smoke.

**Further information on handling**

No further measures if used according to specifications.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Always close containers tightly after the removal of product.

Store upright. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Concentrated

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vapours are heavier than air. Vapours may form explosive mixtures with air.  
 Keep away from sources of ignition. - No smoking.  
 Protect from sunlight. Store in a well-ventilated place.  
 Store in a dry place. Store in a closed container.

**Advice on storage compatibility**

Do not store together with oxidising agents, toxic as well as strongly acid or alkaline substances.  
 Keep away from food, drink and animal feedingstuffs.

**Further information on storage conditions**

storage temperature of °C 5 up to °C 35  
 Take care for the labels and safety data sheets of the chemicals to be used.  
 Vapours are heavier than air and will spread at floor level.  
 As a standard electrical installations must be protected against explosion

**7.3. Specific end use(s)**

No further relevant information available.

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**
**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
108-10-1	4-Methylpentan-2-one	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
108-94-1	Cyclohexanone	10	41		TWA (8 h)	WEL
		20	82		STEL (15 min)	WEL

**Biological Monitoring Guidance Values (EH40)**

CAS No	Substance	Parameter	Value	Test material	Sampling time
108-10-1	4-methylpentan-2-one	4-methylpentan-2-one	20 µmol/L	urine	Post shift
108-94-1	Cyclohexanone	cyclohexanol	2 mmol/mol	urine	Post shift

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
123-86-4	n-butyl acetate			
Consumer DNEL, long-term		dermal	local	7 ppm
Consumer DNEL, long-term		inhalation	local	48 mg/m <sup>3</sup>

**PNEC values**

CAS No	Substance	Value
Environmental compartment		
123-86-4	n-butyl acetate	
Freshwater		0,18 mg/l
Soil		0,093 mg/kg

**Additional advice on limit values**

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. In case of inadequate ventilation wear respiratory protection.

**8.2. Exposure controls**

**Appropriate engineering controls**

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

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**Protective and hygiene measures**

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

Wash hands before breaks and after work.

When using do not eat, drink, smoke, sniff.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

Wear suitable gloves.

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.

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

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

Thorough skin-cleansing after handling the product.

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

**Skin protection**

Wear suitable protective clothing. Wear antistatic work clothing.

**Respiratory protection**

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Environmental exposure controls**

If product enters soil, it will be mobile and may contaminate groundwater. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Do not allow to enter into surface water or drains.

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

Physical state:	liquid	
Colour:	clear	
Odour:	stinging	
		<b>Test method</b>
pH-Value:		not applicable
<b>Changes in the physical state</b>		
Melting point:		Not available.
Initial boiling point and boiling range:		Not available.
Softening point:		not applicable
Flash point:		> 23 - 55 °C
Sustaining combustion:		No data available
<b>Flammability</b>		
Solid:		not applicable
Gas:		not determined
<b>Explosive properties</b>		
	not explosive according to EU A.14 However, formation of explosive air/vapour mixtures are possible.	
Lower explosion limits:		---
Upper explosion limits:		---
Ignition temperature:		not determined
<b>Auto-ignition temperature</b>		
Solid:		Product is not selfigniting.
Gas:		not applicable
Decomposition temperature:		not determined
<b>Oxidizing properties</b>		
	no classification	
Vapour pressure: (at 50 °C)		1 hPa
Density:		0,9409 g/cm <sup>3</sup>
Water solubility:		not determined
Partition coefficient:		not determined
Viscosity / dynamic:		not determined
Viscosity / kinematic:		not determined

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Flow time: 60 s 6 mm 8 DIN EN ISO 2431  
 Vapour density: Not available.  
 Evaporation rate: Not available.  
 Solvent content: Organic solvents: -, - %  
 Maximum VOC content: 67,99 %

**9.2. Other information**

Solid content: 32 %

**SECTION 10: Stability and reactivity**
**10.1. Reactivity**

No information available.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4. Conditions to avoid**

Conditions for safe storage, including any incompatibilities, No specific if used according to specifications. Keep/Store only in original container.

Only use containers specifically approved for the substance/product.

**10.5. Incompatible materials**

Do not store together with oxidising agents, toxic as well as strongly acid or alkaline substances.

Exothermic reaction with: Oxidising agent, alkaline Substances

**10.6. Hazardous decomposition products**

 Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide. In case of fire thick, black fumes will form.

**SECTION 11: Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

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

Vapours may cause drowsiness and dizziness.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
123-86-4	n-butyl acetate				
	oral	LD50	10800 mg/kg	Ratte	RTECS
	dermal	LD50	17600 mg/kg	Kaninchen	IUCLID
108-10-1	4-methylpentan-2-one, isobutyl methyl ketone				
	oral	LD50	2080 mg/kg	Rat	RTECS
	dermal	LD50	>16000 mg/kg	Rabbit	IUCLID
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1,5 mg/l		
108-94-1	cyclohexanone				
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1,5 mg/l		

**Irritation and corrosivity**

Causes serious eye irritation.

**Sensitising effects**

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

**STOT-single exposure**

May cause respiratory irritation. (4-methylpentan-2-one, isobutyl methyl ketone)

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

**Severe effects after repeated or prolonged exposure**

Repeated exposure may cause skin dryness or cracking.

**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.

**Specific effects in experiment on an animal**

Toxicological data are not available.

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**Additional information on tests**

none

**Observations relevant to classification**

No special references.

**Other observations**

No special precautionary measures.

**Further information**

The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

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

CAS No	Chemical name	Method	Dose	[h]   [d]	Species	Source
123-86-4	n-butyl acetate					
	Acute fish toxicity	LC50	81 mg/l	96 h		
108-10-1	4-methylpentan-2-one, isobutyl methyl ketone					
	Acute fish toxicity	LC50	505 - 540 mg/l	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50	400 mg/l	96 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50	170 mg/l	48 h	Daphnia magna	IUCLID

**12.2. Persistence and degradability**

none Evidence exists for biodegradation processes.

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
123-86-4	n-butyl acetate	0,29
108-10-1	4-methylpentan-2-one, isobutyl methyl ketone	1,31
108-94-1	cyclohexanone	0,81

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

This substance does not meet the criteria for classification as PBT or vPvB.

**12.6. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**
**13.1. Waste treatment methods**
**Advice on disposal**

Prevent from reaching waters or soil. Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Must not be disposed together with household garbage.

**Waste disposal number of waste from residues/unused products**

 150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances  
Classified as hazardous waste.

**Waste disposal number of used product**

 150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances  
Classified as hazardous waste.

**Contaminated packaging**

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Dispose of waste according to applicable legislation.

Handle contaminated packages in the same way as the substance itself.

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


**14.1. UN number:** UN 1263  
**14.2. UN proper shipping name:** Paint  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



**Classification code:** F1  
**Special Provisions:** 163 640E 650  
**Limited quantity:** 5 L  
**Excepted quantity:** E1  
**Transport category:** 3  
**Hazard No:** 30  
**Tunnel restriction code:** D/E

**Inland waterways transport (ADN)**


**14.1. UN number:** UN 1263  
**14.2. UN proper shipping name:** Paint  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



**Classification code:** F1  
**Special Provisions:** 163 640E 650  
**Limited quantity:** 5 L  
**Excepted quantity:** E1

**Marine transport (IMDG)**

**14.1. UN number:** UN 1263  
**14.2. UN proper shipping name:** Paint  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



**Special Provisions:** 163, 223, 955  
**Limited quantity:** 5 L  
**Excepted quantity:** E1  
**EmS:** F-E, S-E

**Air transport (ICAO)**

**14.1. UN number:** UN 1263  
**14.2. UN proper shipping name:** Paint  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



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Special Provisions:	A3 A72	
Limited quantity Passenger:	10 L	
Passenger LQ:	Y344	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:		355
IATA-max. quantity - Passenger:		60 L
IATA-packing instructions - Cargo:		366
IATA-max. quantity - Cargo:		220 L

**14.6. Special precautions for user**

Warning: Flammable liquids

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

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**

2010/75/EU (VOC):	31 % (291,679 g/l)
2004/42/EC (VOC):	31 % (291,679 g/l)

**Additional information**

The product is classified and labelled according to EC directives or corresponding national laws.  
Classification according to Regulation (EC) No. 1272/2008 [CLP]

**National regulatory information**

Employment restrictions:	Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class (D):	1 - slightly water contaminating

**Additional information**

Betriebssicherheitsverordnung (BetrSichV) Highly flammable.  
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**

This data sheet contains changes from the previous version in section(s): 2,3,4,8,9,10,11,12,13,14,15,16.

**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)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

**Relevant R-phrases (Number and full text)**

10	Flammable.
11	Highly flammable.
20	Harmful by inhalation.
36/37	Irritating to eyes and respiratory system.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

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**Relevant H- and EUH-phrases (Number and full text)**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

**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 present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

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