

Safety Data Sheet

according to Regulation (EC) No 1907/2006

FENOPREN FD

Revision date: 08.05.2017

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

FENOPREN FD

Product code:

644934

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

Adhesives, sealants

1.3. Details of the supplier of the safety data sheet

Company name: Fenoplast Fügetechnik GmbH
Street: Zur Dornheck 21-23
Place: D-35764 Sinn-Fleisbach
Telephone: +49 (0) 2772 57587-0 Telefax: +49 (0) 2772 57587-20
e-mail: info@fenoplast.de
Internet: http://www.fenoplast.de
Responsible Department: E-mail (competent person): productsafety@fenoplast.de

1.4. Emergency telephone number:

GBK GmbH +49 (0) 6132 / 84 463 (24 h)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable liquid: Flam. Liq. 2

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Highly flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

ethyl acetate

hydrocarbons, C6-C7

hydrocarbonic resin, C9 unsaturated, polymerised

Signal word: Danger**Pictograms:**

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Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.
P403	Store in a well-ventilated place.
P501	Dispose of waste according to applicable legislation.

2.3. Other hazards

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

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 - 30 %
	205-500-4	
	607-022-00-5	
	01-2119475103-46	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066	
	hydrocarbons, C6-C7	10 - 20 %
	921-024-6	
	01-2119475514-35	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	
71302-83-5	hydrocarbonic resin, C9 unsaturated, polymerised	< 2,5 %
	615-276-3	
	01-2119555292-40	
	Skin Sens. 1, Aquatic Chronic 3; H317 H412	
38640-62-9	Bis(isopropyl)naphthalene	< 2 %
	254-052-6	
	01-2119565150-48	
	Asp. Tox. 1, Aquatic Chronic 1; H304 H410	
110-54-3	n-hexane	< 0,5 %
	203-777-6	
	601-037-00-0	
	01-2119474209-33	
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 2; H225 H361f H315 H336 H373 H304 H411	

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Call a physician immediately. Do NOT induce vomiting.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray. alcohol resistant foam. Extinguishing powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Gases/vapours, toxic

5.3. Advice for firefighters

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

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Keep away from sources of ignition - No smoking. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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). Take up mechanically.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Provide for retaining containers, eg. floor pan without outflow. Keep container tightly closed in a cool, well-ventilated place.

Advice on storage compatibility

Do not store together with: Food and feedingstuffs

Further information on storage conditions

Avoid: Frost. heat. Protect against direct sunlight.

7.3. Specific end use(s)

Adhesives, sealants

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
141-78-6	Ethyl acetate	200	-	-	TWA (8 h)	WEL
		400	-	-	STEL (15 min)	WEL
110-54-3	n-Hexane	20	72	-	TWA (8 h)	WEL
		-	-	-	STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
	hydrocarbons, C6-C7			
Worker DNEL, long-term		inhalation	local	3,25 mg/m ³

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Wash hands before breaks and after work. Remove contaminated, saturated clothing immediately. Keep away from food, drink and animal feedingstuffs.

Eye/face protection

Tightly sealed safety glasses.

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Hand protection

To follow: Organisational measures to prevent exposure.
Protect skin by using skin protective cream.

Long-term (continuous): Breakthrough time (maximum wearing time) 480 min

Short-term (single): FKM (fluoro rubber). Thickness of the glove material 0,7 mm. Breakthrough time (maximum wearing time) 15 min.

Short-term (single): NBR (Nitrile rubber). Thickness of the glove material $\geq 0,12$ mm.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. (Filtering device with filter or ventilator filtering device of type: A; DIN EN 14387/DIN EN 141)

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

Physical state:	liquid	
Colour:	black	
Odour:	like: Solvent	
pH-Value:		not determined

Changes in the physical state

Melting point:		not determined
Initial boiling point and boiling range:		77 °C
Flash point:		-15 °C

Flammability

Solid:		not applicable
Gas:		not applicable

Explosive properties

Explosion group: IIA

Lower explosion limits:		0,6 vol. %
Upper explosion limits:		11,5 vol. %
Ignition temperature:		> 200 °C

Auto-ignition temperature

Solid:		not applicable
Gas:		not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Vapour pressure: (at 20 °C)		97 hPa
Density (at 20 °C):		0,92 g/cm ³

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Water solubility:	partially soluble
Solubility in other solvents not determined	
Partition coefficient:	not determined
Viscosity / dynamic: (at 20 °C)	30000 mPa·s
Viscosity / kinematic:	not determined
Vapour density:	not determined
Evaporation rate:	not determined
Solvent content:	44,9 %

9.2. Other information

Odour threshold: not determined

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

Reacts with : Oxidizing agents. acid.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

The product is stable under storage at normal ambient temperatures.

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

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

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (hydrocarbonic resin, C9 unsaturated, polymerised)

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; hydrocarbons, C6-C7)

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

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

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arising from the substance or mixture!

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

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

Waste disposal number of used product

080411 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); adhesive and sealant sludges containing organic solvents or other hazardous substances; hazardous waste

Waste disposal number of contaminated packaging

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 hazardous substances; hazardous waste

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

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

<u>14.1. UN number:</u>	UN 1133
<u>14.2. UN proper shipping name:</u>	Adhesives (ethyl acetate; hydrocarbons, C6-C7)
<u>14.3. Transport hazard class(es):</u>	3
<u>14.4. Packing group:</u>	III

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Hazard label: 3



Classification code: F1
 Special Provisions: 640E
 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 1133**14.2. UN proper shipping name:** Adhesives (ethyl acetate; hydrocarbons, C6-C7)**14.3. Transport hazard class(es):** 3**14.4. Packing group:** III

Hazard label: 3



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

Marine transport (IMDG)**14.1. UN number:** UN 1133**14.2. UN proper shipping name:** Adhesives (ethyl acetate; hydrocarbons, C6-C7)**14.3. Transport hazard class(es):** 3**14.4. Packing group:** II

Hazard label: 3



Special Provisions: -
 Limited quantity: 5 L
 Excepted quantity: E2
 EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)**14.1. UN number:** UN 1133**14.2. UN proper shipping name:** Adhesives (ethyl acetate; hydrocarbons, C6-C7)**14.3. Transport hazard class(es):** 3**14.4. Packing group:** II

Hazard label: 3



Special Provisions: A3
 Limited quantity Passenger: 1 L

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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: yes



Danger releasing substance: hydrocarbons, C6-C7

14.6. Special precautions for user

Warning: flammable liquids

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

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3: ethyl acetate; hydrocarbons, C6-C7; Bis(isopropyl)naphthalene; n-hexane

2010/75/EU (VOC): 44,90 %

Information according to 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

Additional information: P5c

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

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

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

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):
1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.**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)

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

LC50: Lethal concentration, 50%

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LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

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 receiver of our product is singularly responsible for adhering to existing laws and regulations.

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



FENOPREN FD

Item no: 644934



1

Description

FENOPREN FD black – Specifically designed, gap-filling adhesive for bonding rubber with various materials.

Special characteristics:

- Permanently elastic adhesive joint
- Very good water resistance
- Very good heat resistance
- Free of toluol
- Thixotropic, it does not drip and run off, thus enabling work on vertical workpieces
- High initial adhesion
- Reaches functional strength in a short period of time

Application areas

FENOPREN FD was specifically designed for bonding rubber materials such as CR, EPDM, NBR and SBR with a variety of different materials like metal, glass, wood, mineral substrates as well as plastics such as PVC hard or PS.

The adhesive is used in window and door construction for bonding and sealing profile material, in particular APTK gaskets as well as for sealing cutting and mitre surfaces on glazing gaskets in many industrial areas.



Application

Preparation

The surfaces of the workpieces to be bonded must be free from dirt and grease. For cleaning, we recommend FENOSOL® S 20 UVA cleaner. To improve the adhesion of FENOPREN FD we recommend to clean the surfaces which are to be bond with FENOSOL® DUOTEC Type 2. The temperature of the elements to be bonded as well as room temperature should be between 5 °C and 25 °C. We recommend to carry out sufficient self-tests before using FENOPREN FD.

Bonding

Apply the adhesive evenly and directly from the tube on both elements which are to be bonded. Wait for at least 5 minutes but not longer than 15 minutes. Fit them together and press until functional strength has been reached.

You can also apply the adhesive only onto on element. In this case you have to wait for the adhesive to dry a little. The time necessary for that depends on the room temperature, the amount of adhesive you are using and the surfaces you are bonding. The elements can be fit together if the adhesive layer is still slightly sticky but does not stick to the finger when you touch it.

2

Curing time

The curing of the adhesive depends on the room temperature. Complete curing is reached after 24 hours. For professional use only.

Technical specifications

Chemical base	Synthetic rubber, contains solvent
Colour	black
Texture	gap-filling adhesive, easy to spread
Density	0,92 g/cm ³
Viscosity	30.000 mPa.s
Temperature range	-25 °C to 80 °C



Chemical resistance

FENOPREN FD has great UV stability according to Xenotest DIN 53387. It remains free of yellowing after 40 hours of weathering. The adhesive is resistant to water, alcohols, oils, gasoline and dilute alkalis and acids. The glue also has got good UV stability as well as weather resistance.

Delivery form

Item no. 644934: 180 g tube, PU = 20 tubes in a box

Storage

Keep tightly closed in the original container. Protect from heat and cold. Best used: 12 months from the date of production. We recommend storing the product at room temperature, preferably at 20 °C +- 5 °C

Equipment

Item no. 200020: FENOSOL® S 20 UVA 1000 ml can, 1 PU = 10 cans in a box

Item no. 200054: FENOSOL® DUOTEC Type 2 200 ml can, 1 PU = 20 cans in a box

Item no. 200910: FENOCLEAN Special Cleaning Paper 1 PU = 2 roles a 1500 sheet

Please refer to the safety data sheet for safety-relevant data!

NOTE: The above information can only be used as a general guide. The listed features and performance characteristics are approximate values, which are not part of the product specification. Because of the processing and application conditions outside of our influence and the multitude of different materials, we recommend to carry out sufficient self-tests. A liability for specific application results can therefore not be derived from the information and notes in this leaflet. In the context of our sales conditions, a guarantee is given solely for the consistently high quality of our products. With the publication of this edition, all previous technical information sheets are invalid.