

♥ Safety Data Sheet FF854 Liquid PVC Sealant

	Safety Data Sheet	SDS L40/2004
Date of issue: 1 May 2000 Date of revision: 14 Nov 2005	FF854 PVC Sealant	Page 1 (of 2)

1. Identification of preparation and producer/importer

Identification of preparation: **Sealant**

Alternative product name: Thinner 494

Use of preparation: Joining and sealing welds of water-proofing and swimming-pool PVC membranes and/or sealant thinning **Identification of producer/importer:** Superfix Production

s.r.o., náměstí Svobody 1054, 752 01 Kojetín. Tel.: +420 581 764 107 Fax: +420 581 761 543

Emergency telephone number: +420 224 919 293, or +420 224 915 402, or +420 224 914 575 (Toxicological Information Centre in Prague)

2. Composition/information on ingredients The product contains these hazardous substances:

CAS No.	EINECS No.	Name	Warning symbol	Contents in %	R-phrase S-phrase
109-99-9	203-726-2	tetra-hydro furan	F Xi	at least 80	R 11-19- 36/37 S (2)-16- 29-33

3. Identification of hazards

Preparation classification: F highly flammable, Xi irritant Hazards to man and the environment – **R-phrases:**

R11 Highly flammable.

R19 May form explosive peroxides.

R36/37 Irritating to eyes and respiratory system.

Critical hazards to human health resulting from use of the preparation: Irritates eyes, skin and airways; has a narcotic effect.

Critical hazards to the environment resulting from use of the **preparation:** Contains substances that pollute water and are a source of emissions of organic substances into the atmosphere.

Possible misuse of the preparation: Flammable liquid, must be protected against naked flames.

4. First aid measures

General instructions: Seek medical attention if symptoms of any problems (irritation) resulting from exposure to the product persist following the administration of first aid.

Inhalation: Move the affected person into fresh air and seek medical attention if discomfort occurs.

Skin contact: Remove any contaminated clothing, remove the substance from the affected skin, wash with soap and clean thoroughly under running water.

Eye contact: Flush eyes thoroughly with clean water for 10-15 minutes. Seek medical attention immediately, preferably an ophthalmologist.

Ingestion: Do not induce vomiting. Seek medical advice.

5. Fire-fighting measures

Suitable extinguishers: CO₂ (carbon dioxide), powder, foam. Unsuitable extinguishers: Strong water jet.

Special hazards: Production of smoke.

Special protective equipment for fire-fighters: Anti-chemical clothing and self-contained breathing apparatus.

Other information: Vapours are heavier than air and accumulate near the ground.

6. Accidental release measures

Personal safety precautions: Use personal protective equipment described in Point 8.

Environmental safety precautions: Prevent the preparation from entering water sources or drains.

Recommended methods for cleaning and disposal: Collect spillage mechanically, cover with an inert absorbent material (e.g. Vapex) and dispose of in incinerators designed for hazardous substances.

7. Handling and storage instructions

- 7.1 Handling: Use eye and skin protective devices. Act in accordance with regulations concerning flammable liquids and provide ventilation. Please note that vapours may accumulate near the ground! Do not eat, drink or smoke during work. Wash hands after work and before consumption of food.
- **7.2 Storage:** Containers must be tightly closed and stored in a dry and ventilated place in accordance with regulations for flammable liquids as set forth in Czech State Standard CSN 65 0201, at a temperature of +5 to +25°C.

8. Exposure controls and personal protection

8.1 Exposure limits: Permissible exposure limits (PEL) and maximum permissible concentrations (MPC):

Tetra-hydro furan: PEL 150 mg/m³, MPC 300 mg/m³ In exposure, the substance easily permeates the skin.

8.2 Exposure controls: Provide local ventilation while the product is being applied.

Respiratory protection: Use in well-ventilated areas. **Eye protection:** Wear protective goggles or a face shield. Hand protection: Wear protective working gloves made of leather, rubber, PE.

Skin protection: Use working clothes and footwear. Wash hands with hot water and soap after work. Treat the skin with a suitable regenerative product.

9. Physical and chemical properties

Physical state: Liquid

Colour: Transparent, grey, blue, green Typical solvent smell, etheric Odour (smell):

pH value (at °C): Not applicable

Melting temperature (range in °C): Not applicable **Boiling temperature (range in °C):** Above 40

Flash point ($^{\circ}$ C): < -24

Flammability: Hazard class I flammable liquid (CSN 650201) - flammable liquid (Government Decree

173/1997 Coll.)

Auto-ignition: Does not occur

Explosion limits: Upper limit (% by volume): 12.0 Lower limit (% by volume): 1.5

Oxidising properties:

Vapour tension (at °C): **Density (at 20°C):** $0.85 - 0.95 \text{ g/cm}^3$

Solubility (at °C): In water: partly soluble In oils: not available

Partition coefficient of n-octanol/water: Not available Other data: Temperature class: T3 under CSN 33 0371

Explosiveness group: IIA under CSN 33 0371 Contents of organic solvents: 0.81 kg/product kg Contents of total organic carbon: 0.54 kg/product kg

Safety Data Sheet	SDS L40/2004
Sealant	Page 2 (of 2)

Contents of non-volatile substances: 13 % by volume

10. Stability and reactivity

Stable under standard working conditions. Vapours are heavier than air and create explosive mixtures with air (see the explosion limits)

Conditions to avoid: High temperatures, naked flame.

Materials to avoid: Strong oxidising agents, strong alkaline substances, strong mineral acids, amines, aldehydes.

Hazardous decomposition products: Explosive peroxides may be generated.

11. Toxicological information

Acute toxicity:

- LD₅₀ oral, rat (mg/kg): 2,000 (tetra-hydro-furan),
- LD₅₀ dermal, rat or rabbit (mg/kg): 2,000 (tetra-hydro-furan),

Carcinogenity: Not classified as carcinogenic to man.

Effects on humans: Skin and eye irritation, fatigue, drowsiness.

12. Ecological information

Acute toxicity for aquatic organisms:

- LC₅₀ 96 hours, fish (mg/kg): 2,930 (tetra-hydro-furan)
- EC₅₀ 48 hours, daphnia (mg/kg): 1,250 (tetra-hydro-furan)
- IC₅₀ 72 hours, algae (mg/kg): not available

Degradability: The product is not fully biodegradable in a short period of time.

Toxicity for other environments: Prevent the product from spilling into the environment.

Chemical oxygen demand: Not available. Biological oxygen demands: Not available.

13. Disposal considerations

Product disposal methods: The product must be disposed of in accordance with valid regulations for waste handling (see Act 185/2001 Coll. on wastes). Dried product residues may be disposed of as domestic garbage or construction waste.

Contaminated containers shall be disposed as follows: Non-returnable single-use containers are to be recycled in accordance with Act 185/2001 Coll. on wastes. The producer is a member of the EKO-KOM Association and has paid for product recycling.

14. Transport information

Road transport ADR/RID:

UN number: 1133 Adhesives containing flammable liquid. Class: 3 Classification code: F 1 Packaging group: II Limit quantity: LQ6 Safety symbols: 3

Hazard identification number: 33

Note: Under conditions of Article 3.4.5 ADR (transport in a bulk package or on a pallet, limit quantity, labelling etc), other ADR provisions concerning the product transport shall not apply.

Sea transport: IMDG: UN number: 1133 Class: 3.2 Packaging type: II Marine pollutant: No

Technical name: Label: 3

Air transport: ICAO/IATA: UN number: 1133 Class: 3

Packaging type: II Technical name:

15. Regulatory information

Under Decree 231/2004 Coll., the packaging must show the following information concerning health protection, safety and environmental protection:

Hazard symbol: F highly flammable, Xi irritant

R-phrases: See Point 3.

S-phrases:

- S2 Keep out of the reach of children.
- S9 Keep container in a well-ventilated place.
- S16 Keep away from sources of ignition No smoking.
- S29 Do not empty into drains.
- S33 Take precautionary measures against static discharges.

Instructions for first aid before medical attention is available: See Point 4.

Instructions for use

Note: Under Decree 232/2004 Coll., some R- and S-phrases need not appear on all types and sizes of packaging.

16. Other information

List of relevant R-phrases contained in Points 2 and 3:

R11 Highly flammable.

R19 May form explosive peroxides.

R36/37 Irritating to eyes and respiratory system.

Information sources:

- In compliance with Act 22/1997 Coll., Government Decree 173/1997 Coll. and Ministry of Interior Decree 246/2001 Coll., the fire and technical properties are provided in accordance with Certificate 105 0820 113 that was issued on 2 January 2002 by Zkušební ústav lehkého průmyslu s.p. (Light-Industry Testing Institute, state-owned company).
- Safety data sheets from raw material suppliers.
- Marhold: Industrial toxicology overview

Revisions: - 21 June 2004: modifications and additions to information under Act 356/2003 Coll., Decree 231/2004 Coll. and 232/2004 Coll., and to information on labelling products containing organic solvents, in accordance with Decree 355/2002 Coll.

- 14 November 2005: modifications and additions to information regarding R- and S-phrases in Chapters 3, 15 and 16, and a new registered office of the company in the index

Declaration. The safety data sheet contains information necessary to ensure safety, health protection at work and environmental protection. The information provided herein is based on our current level of knowledge and expertise and complies with valid legal regulations. The information must not be regarded as a guarantee of product suitability and usability in a concrete application.