

Date of Issue: 16.08.2005
Replaced Data Sheet: September 2001
Product Name: HFS-Liquid Foam (Resin)

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***1 Identification of the Substance/Preparation and the Company**

Product Name: **HFS-Liquid Foam (Resin)**
Application: Resin component for the production of polyurethane-foam.
Producer/Supplier: HÖHNE GmbH
Mühlenstraße 76
D-25421 Pinneberg (Germany)
Telephone: +49 - (0)4101 / 5453 - 0 / Fax: - 33
Internet: www.hoehne.de / E-Mail: info@hoehne.de
Emergency Phone No.: In an emergency dial your local Emergency Call.
Keep this Safety Data Sheet at hand.

***2 Composition / Information on Ingredients**

Chemical Characterization (Preparation):
Polyurethane-foam (resin component) based on polyetherpolyols.
Additional Information:
No hazardous substance or hazardous preparation according to latest version of 67/548/EEC.
Information indicated in chapter 8 are to be considered.

3 Hazards Identification

Special Hazard Identification for Human and Environment:
Hazard warning not required. No specific hazards under normal conditions of handling and use.

***4 First-Aid Measures**

General:
Remove soiled, soaked clothing and shoes.
Inhalation:
Take the person into the fresh air. Seek medical advice in case of continuous irritation.
Skin Contact:
Wash with plenty of cold or lukewarm water and soap.
Eye Contact:
In the event of contact with the eyes, hold the eyes open and rinse with plenty of water for a at least 10 minutes. A doctor (or eye specialist) should be consulted immediately.
Swallowing:
Do not induce vomiting. Do not swallow. Provided the patient is conscious, wash out mouth with water (do not swallow). Medical advice is required.

***5 Fire-Fighting Measures**

Suitable Extinguishing Media:
Extinguishing powder, alcohol-resistant foam, carbon dioxide, water spray or water mist.
Extinguishing Media which must not be used for safety reasons:
Water jet.
Special Exposure Hazards arising from the substance itself, combustion products, resulting gases:
Burning product sets free an complex mixture of gases and airborne particulates, including carbon monoxide, carbon dioxide and other noxious and inflammable gases and fumes.
Special Protective Equipment for Fire Fighting:
Use respiratory protection independent of recirculated air.
Further Information:
Do not let enter contaminated extinguishing water into the soil, groundwater or surface waters.

6 Accidental Release Measures

Personal Precautions:
Wear personal protection clothing (see Chapter 8).
Environmental Precautions:
Do not allow to enter drains, sewers or watercourses.
Clean-up Method:
Adsorb spillages onto sand, earth or any suitable adsorbent material. Fill it into an clearly marked container and dispose of according to local/state/federal regulations (see chapter 13).

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*7 Handling and Storage

Handling:
Observe the usual precautionary measures for chemicals.

Precautions Against Fire and Explosion:
Observe the general rules for fire prevention.

Storage:
Keep container tightly closed and store under cool and dry conditions.
Keep separated from foodstuffs.
Keep away from moisture.
Keep away from strong oxidising agents and acids.
Avoid direct sunlight and heat sources.
Storage Temperature: 10 - 40°C

*8 Exposure Controls / Personal Protection

For technical protective measures to limit exposure see also Chapter 7 "Handling and Storage".

Occupational Exposure Limits:
The product contains no components with an Occupational Exposure Limit.

Personal Protection:

Respiratory Protection: Not required under normal working conditions.

Hand Protection: Use protective gloves (PE, PVC or Latex).
Break-through time not examined. After contamination dispose of.

Eye Protection: Chemical safety glasses/full face shield if splashing is possible.

Skin Protection: Overall should be worn.

General safety and hygienic measures:
Do not eat, drink or smoke during work.
Avoid contact with eyes, skin and clothes.
Wash hands with water and soap before breaks and at end of work.
Remove contaminated clothing. Contaminated clothing should be thoroughly cleaned before re-use.
Store work clothes and street clothes separately.

Safety precautions for handling freshly moulded polyurethane parts: see Chapter 16.

*9 Physical and Chemical Properties

tested in accordance with

Form:	liquid	
Colour:	clear (transparent)	
Odour:	nearly odourless	
Pour Point:	not determined	
Flash Point:	> 200°C	DIN ISO 2592
Ignition Temperature:	> 350°C	DIN 51 794
Vapour Pressure:	< 1 hPa	(at 20°C)
Density:	approx. 1,00 g/cm ³	(at 23°C) DIN 51 757
Viscosity:	approx. 1000 mPa·s	(at 23°C) Brookfield
Solubility in Water:	miscible	(at 20°C)
pH value	approx. 8	(100 g/l)

*10 Stability and Reactivity

General Information:
If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Material to Avoid:
Strong oxidising agents, acids.

Hazardous Decomposition Products:
No hazardous decomposition products when stored and handled correctly.

Further Information
Pay attention to exothermic reaction with isocyanates (hardener component).

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*11 Toxicological Information

No specific data available for this product.
Information given is based on data on the components and on similarly composed products.

Acute Toxicity:

LD₅₀ oral, rat: An expected acute oral toxicity will be in the order of > 2000 mg/kg
as derived from products with similar composition.

Irritating/Corrosive Effects:

Eye Contact: Slight, temporary eye irritation is possible. A cornea injury is improbable.

Skin Contact: No irritation at the skin will be expected.

Sensitisation: No sensitising effect known.

Further Information:

In the case of appropriate handling and intended use the product does not cause effects injurious to health after experiences of many years and the available information.

*12 Ecological Information

No specific data available for this product.
Information given is based on data on the components and on similarly composed products.

Mobility and Bioaccumulation Potential:

Considerable evaporation from aqueous solution into air is not to be expected.

Degradability: The degradation of the product is expected to be very slow.

Aquatic toxicity: Fish toxicity LC₅₀: > 100 mg/l.
Bacteria toxicity EC₀: > 100 mg/l.

Further Information:

Do not allow to escape into waters, wastewater or soil.

The product is practically not water soluble and free from poisons and heavy metals. Due to the physical characteristics a separation of the product takes place with each filtration or sedimentation procedure.

In the hardened condition (after the reaction with the hardener) insolubly in water.

*13 Disposal Considerations

Disposal of Residues:

Dispose of according to regulations by incineration in a special waste incinerator.

The relevant EU Directives and local, regional and national regulations must be complied with.

It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste Catalogue. It is recommended that details be sorted out with the waste disposer responsible.

Uncleaned Packaging (Recommendation):

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), any product residue adhering to their walls has been rendered harmless, and the product and hazard labelling has been invalidated, they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry.

Containers must be recycled in compliance with national legislation and environmental regulations.

*14 Transport Information

Is subject to no transportation regulations.

No dangerous cargo according to: ADR/RID (Land Transport - Road/Railway)
GGVSee/IMDG-Code (Transport by Sea)
ICAO-TI/IATA-DGR (Air Transport)

German Postal Dispatch: Permitted.

Recommendation: Keep away from foodstuffs.

*15 Regulatory Information

No labelling is required in accordance with the EEC directives.

National Regulation (Germany):

Water pollution class (WGK): 1 - slightly hazardous to water

WGK = Classification in accordance with the German Water Resources Act (VwVwS 1999-05-17)

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***16 Other Information**

Safety precaution for handling freshly moulded polyurethane parts:

Depending on the production parameters, any uncovered surfaces of polyurethane mouldings produced using this raw material may contain traces of substances (e.g. starting and reaction products, catalysts, release agents) with hazardous characteristics (e.g. harmful, irritating, corrosive, sensitising).

Skin contact with traces of these substances should be avoided. When demoulding or otherwise handling freshly moulded polyurethane parts, protective textile gloves should be worn as a minimum. Their palm and finger areas should preferably be coated on the outside with nitrile rubber, PVC or polyurethane.

The wearing of protective clothing (if necessary with long sleeves) suited to the conditions normally encountered when handling freshly moulded polyurethane parts is recommended.

This data sheet was prepared in accordance with the EU Directives.

In the Safety Data Sheet all chapters which have been changed since last edition are marked with an asterisk (*) in front of the chapter number.

This Safety Data Sheet replaces all previous information.

Revised and valid from: see date of issue.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance.