

1. Identification of Substance / Preparation and Company

Name of preparation : HYDRO ACTIVE FLEX LV AF
Recommended use : Leaksealing, waterproofing injection resin
Company : De Neef Construction Chemicals NV/SA, Industriepark 8,
2220 Heist-op-den-Berg, Belgium
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2. Hazards Identification

harmful by inhalation
irritating to eyes, respiratory tract and skin
may cause sensitisation by inhalation and in contact with skin

3. Composition / Information on ingredients

<u>hazardous ingredient</u>	<u>Einecs-number</u>	<u>conc. (% w/w)</u>	<u>symbol</u>	<u>Risk phrases</u>
diphenylmethane-4,4'-diisocyanate (MDI)	202-966-0	5 - 15	Xn	R20, R36/37/38 R42/43
diphenylmethane-2,4'-diisocyanate (MDI)	227-534-9	5 - 15	Xn	R20, R36/37/38 R42/43

The full text of these R-phrases can be found in section 16.

4. First Aid Measures

General advice : in case of doubt or with persisting symptoms obtain medical attention. Never pass anything through the mouth of an unconscious person.

Skin contact : remove soiled clothing. Wash skin with soap and water. Do not use solvents or thinners. Seek medical advice if irritation develops.

Eye contact : rinse immediately with eye wash or clean water for at least 15 min. Contact lenses should be removed. Seek medical attention.

Ingestion : Immediately rinse mouth out. Seek immediate medical advice.

Inhalation : Move victim into fresh air. Seek immediate medical advice.

5. Fire Fighting Measures

Suitable extinguishing media : carbon dioxide, dry powder or foam
Unsuitable extinguishing media : water

Exposure hazards : at combustion smoke, carbon monoxide, carbon dioxide and nitrogen oxides will form

Special protective equipment : fire fighters should wear full protective clothing and self contained breathing apparatus.

6. Accidental Release Measures

Personal precautions : Ensure adequate ventilation if working in confined spaces. Avoid with eyes and wear protective clothing (see section 8).

Environmental precautions : Prevent material from entering sewage system, water courses or water treatment installations.

Methods for cleaning up : Spread sand or industrial absorbent over spillage. Treat contaminated absorbent with water containing 5 % aqueous ammonia solution and transfer into labelled containers for disposal. See section 13 for disposal considerations.

7. Handling & Storage

Handling : Never spray the product; do not drink, eat or smoke during handling.

Storage : Keep containers dry and closed. Store in original containers at 5 – 50°C.

8. Exposure Controls / Personal Protection

Ingredients with exposure limits

Diphenylmethane 2,4 diisocyanate	EH40-MEL (UK)	TWA 0.02 mg/m ³ as NCO STEL 0.07 mg/m ³ as NCO
Diphenylmethane 4,4' diisocyanate	EH40-MEL (UK)	TWA 0.02 mg/m ³ as NCO STEL 0.07 mg/m ³ as NCO

Respiratory protection : Normal conditions of ventilation are usually adequate. Wear a fine particle mask or respirator with filter A-P2, or use local exhaust ventilation as necessary when mixing in confined areas with inadequate ventilation or whenever there is any risk of the exposure limits being exceeded.

Hand protection : Use protective gloves. Suitable types are pvc or neoprene. If in doubt seek advice from a reputable manufacturer. Barrier creams help to protect exposed areas but are no substitute for full physical protection. They should not be applied once exposure has occurred.

Eye protection : Eye protection designed to protect against liquid splashes should be worn e.g. complete enclosure of the eye.

Skin protection : Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

9. Physical and Chemical Properties

appearance :	yellow liquid
odour :	sweet
melting point :	< -20°C
flash point :	> 130°C
vapour pressure :	0.0006 mm Hg at 40°C
relative density :	approx 1,02 kg/l
solubility in water :	not soluble

10. Stability and Reactivity

- Stability : Stable under normal ambient conditions.
Conditions to avoid : Keep away from ignition sources and water if container is not sealed.
Materials to avoid : water and oxidizing agents.
Hazardous decomposition products : none in ambient conditions

11. Toxicological Information

Acute toxicity : LD 50 oral : > 3200 mg/kg (rat)

Routes of exposure : inhalation, skin, ingestion and eye contact

Effects of exposure and symptoms :

In instances of severe inhalation asthmatic symptoms may occur several hours after exposure. Exposure may result in sensitisation to the product/vapours. The product may cause an allergic reaction to sensitive skin. The product can cause sensitisation in contact with the skin.

Eye : may cause irritation.

Ingestion : may cause discomfort and would require immediate dilution with plenty of water. If taken into mouth and not swallowed, swill out with water.

12. Ecological Information

Mobility : not soluble in water. The product reacts with water to produce carbon dioxide gas and polyureas; the polyureas are inert products.

Ecotoxicity : none of the ingredients is classified as dangerous to the environment

Bio accumulation : the product is not expected to be bio accumulative

Bio degradability : the liquid product is not biodegradable.

13. Disposal Consideration

Do not allow into drains or water courses or where ground water or surface waters may be affected. Ensure any containers containing waste material are correctly labelled. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with local, state or EC regulations at an authorised site. European Waste Code : 08 05 01*

14. Transport Information

Not considered as dangerous goods according transport regulations.

15. Regulatory Information

<u>Symbol</u>	Xn	harmful
<u>Risk phrases</u>	R20 R36/37/38 R42/43	harmful by inhalation irritating to eyes, respiratory tract and skin may cause sensitisation by inhalation and in contact with skin
<u>Safety phrases</u>	S26 S28 S38 S45	in case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After skin contact, wash immediately with plenty of soap and water in case of insufficient ventilation, wear respiratory equipment in case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Contains isocyanates : see instructions from manufacturer.

16. Other Information

Training advice : Do not use unless trained to do so.

R-phrases mentioned in section 3)

R20	harmful by inhalation
R36/37/38	irritating to eyes, respiratory tract and skin
R42/43	may cause sensitisation by inhalation and in contact with skin

This Material Safety Data Sheet conforms to EC Directive 1907/2006.

The information given here is to the best of our knowledge true and accurate and provided solely for making safety assessments. The information on its own is not a specification or an indication of suitability for a particular use.