

Material Safety Data Sheet

According to 91/155 EEC

Printing date 04.04.2007

Reviewed on 21.03.2007

1 Identification of the substance/preparation and of the company/undertaking**Product details**Trade name Eurolan FK Inject 2

Safety data sheet no.: 49PD10371/11

Application of the substance / the preparation Polyurethane sealing

Manufacturer/Supplier:

maxit France s.a.s

4 rue de Mulhouse

Boîte Postale 27

F-68180 Horbourg-Wihr

Tel.: ++33(0)3 89 20 10 80

FAX: ++33(0)3 89 20 10 92

Information in case of emergency:

maxit France s.a.s

Tel.: ++33(0)3 89 20 10 80

2 Composition/information on ingredients**Chemical characterization**

Description: Polyisocyanate

Dangerous components:

26447-40-5	methylenediphenyl diisocyanate	 Xn,  Xi; R 20-36/37/38-42/43	25 - 50%
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Additional information For the wording of the listed risk phrases refer to section 16.**3 Hazards identification****Hazard description:**

Xn Harmful

Information concerning particular hazards for human and environment:

R 20 Harmful by inhalation.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 42/43 May cause sensitisation by inhalation and skin contact.

Contains isocyanates. See information supplied by the manufacturer

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First aid measures**General information**

Immediately remove any clothing soiled by the product.

Remove the victim immediately from the danger area. If the patient is unwell consult a doctor and present this data sheet.

After inhalation

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

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After skin contact

Clean with water and soap. If possible, also wash with polyethylene glycol 400.

Seek medical treatment.

After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor. Rinse liquid should be tempered (20-30°C).

After swallowing

Rinse out mouth with water. Do not induce vomiting. Seek medical attention and present this data sheet.

Information for doctor None

5 Fire fighting measures

Suitable extinguishing agents

CO₂, powder or water spray. Fight larger fire with alcohol resistant foam.

For safety reasons unsuitable extinguishing agents Water with full jet

Special hazards caused by the substance, its products of combustion or resulting gases:

In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Hydrogen cyanide (HCN)

Protective equipment: Wear self-contained respiratory protective device.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Measures for environmental protection:

The product must not get into watercourses or into the soil.

Inform respective authorities in case of seepage into water course or sewage system.

In case of seepage into the ground inform responsible authorities.

Measures for cleaning/collecting:

Collect mechanically, cover the rest with a damp, liquid-binding material (e.g. sawdust, chemical binder). After approx. 1 hour collect in waste barrel, do not seal (CO₂ generation!). Keep moist and leave to stand in the open in a secured place for several days. Then dispose of properly.

Additional information: See Section 13 for disposal information.

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7 Handling and storage

Handling

Information for safe handling:

Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Information about fire - and explosion protection: No special measures required.

Storage

Requirements to be met by storerooms and receptacles:

Store only in unopened original receptacles.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:

Protect from heat and direct sunlight.
Protect from humidity and water.

Recommended storage temperature: 5-30°C.

8 Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information:

Te applicable TRGS 900 (MAK list) was used as the basis for the preparation and/or revision of this safety data sheet.

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Store protective clothing separately.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not eat or drink while working.
Use a moisturising skin cream after processing the product.
Avoid contact with the eyes and skin.
Keep away from foodstuffs, beverages and feed.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Short term filter device:

Filter A/P2.

Protection of hands:

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Fluorocarbon rubber (Viton)

Butyl rubber, BR

Nitrile rubber, NBR

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

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substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles

Body protection: Protective work clothing.

9 Physical and chemical properties:**General Information**

Form:	Fluid
Colour:	Yellowish
Odour:	Aromatic

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	230°C (446°F) (DIN)

Flash point:	> 200°C (> 392°F) (DIN ISO 2592)
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Ignition temperature:	ca.445°C (ca.833°F) (DIN 51794)
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Self-igniting:	Product is not selfigniting.
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Danger of explosion:	Product does not present an explosion hazard.
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Vapour pressure at 20°C (68°F):	ca.4 hPa (ca.3 mm Hg)
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Density at 20°C (68°F):	1,12 g/cm ³ (DIN 53217)
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Bulk density:	Not applicable.
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Solubility in / Miscibility with

Water:	unsoluble, reacts (see point 10)
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pH-value:	Not applicable.
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Viscosity:

dynamic at 23°C (73°F):	1100 mPas (DIN 53015)
kinematic:	Not determined.

Solvent content:

Organic solvents:	0,0 %
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10 Stability and reactivity**Thermal decomposition / Conditions to be avoided:**

No decomposition if used according to specifications.

Dangerous reactions:

Exothermic reaction with amines and alcohols. CO₂ generation with water; pressure build-up (danger of bursting) in closed containers.

Dangerous decomposition products: No dangerous decomposition products known.

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11 Toxicological information**Acute toxicity:**

LD/LC50 values relevant for classification:

Components	Type	Value	Species
26447-40-5 methylenediphenyl diisocyanate			
Oral	LD50	> 5000 mg/kg	(rat)
Dermal	LD50	> 5000 mg/kg	(rat)

Primary irritant effect:**on the skin:** Irritant to skin and mucous membranes.**on the eye:** Irritating effect.**Sensitization:**

Sensitization possible through inhalation.

Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

12 Ecological information:**Information about elimination (persistence and degradability):**

Method	
26447-40-5 methylenediphenyl diisocyanate	
Abbaubarkeit (28d)	0 % (-)

Ecotoxicological effects:**Aquatic toxicity:**

Type of test	Effective concentration	Method	Assessment
26447-40-5 methylenediphenyl diisocyanate			
EC50/24h	> 1000 mg/l	(Daphnia magna (großer Wasserfloh))	
LC0/96h	> 1000 mg/l	(Brachydanio rerio (Zebrabärbling))	

Behaviour in sewage processing plants:

Type of test	Effective concentration	Method	Assessment
26447-40-5 methylenediphenyl diisocyanate			
EC 50 (3h)	> 100 mg/l	(Belebtschlamm)	

General notes:

Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations**Product:****Recommendation**

After prior treatment product has to be landfilled adhering to the regulations pertaining to the disposal of particularly hazardous waste.

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Uncleaned packaging:**Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

After the residual adhesive has been cured, the packages can be given over to re-utilisation.

14 Transport information**Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**

ADR/RID-GGVS/E Class: -

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class: -

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: -

Transport/Additional information: Not dangerous according to the above specifications.**15 Regulatory information****Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Observe the general safety regulations when handling chemicals.

Code letter and hazard designation of product:

Xn Harmful

Hazard-determining components of labelling:

methylenediphenyl diisocyanate

Risk phrases:

20 Harmful by inhalation.

36/37/38 Irritating to eyes, respiratory system and skin.

42/43 May cause sensitisation by inhalation and skin contact.

Safety phrases:

23 Do not breathe fumes/aerosol.

24 Avoid contact with skin.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

51 Use only in well-ventilated areas.

Special labelling of certain preparations:

Contains isocyanates. See information supplied by the manufacturer

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National regulations**Information about limitation of use:**

Employment restrictions concerning pregnant and lactating women must be observed.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases

20 Harmful by inhalation.

36/37/38 Irritating to eyes, respiratory system and skin.

42/43 May cause sensitisation by inhalation and skin contact.

Department issuing MSDS: Product safety department**Contact:** Mr Gilles Weber, Tel.: ++33(0)3 89 20 10 93*** Data compared to the previous version altered.**

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