

Permaflex FS

Part B

HEALTH & SAFETY
DATASHEET ISSUE 1.1
13 MAY 2008

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY

PRODUCT NAME: Permaflex FS
PRODUCT N°: EUR5575B
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2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	<u>EEC No</u>	<u>CAS No</u>	<u>Content</u>	<u>Symbols</u>	<u>R Phrases</u>
Methylenediphenyl Diisocyanate	247-714-0	26447-40-5	60-100%	Xn Xi	R20 R42/43 R36/37/38

3. HAZARDS IDENTIFICATION

Harmful by inhalation. Irritating to eyes, respiratory system and skin.
May cause sensitisation by inhalation and skin contact.
CLASSIFICATION: Xn;R20. R42/43. Xi;R36/37/38.

4. FIRST AID MEASURES

INHALATION: Remove to fresh air, keep the patient warm, at rest and preferably in an upright position. Seek medical advice if any discomfort continues. If respiratory problems occur, give artificial respiration/oxygen.

INGESTION: Do NOT induce vomiting. Immediately rinse mouth and provide fresh air. Seek immediate medical attention.

SKIN CONTACT: Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Seek medical attention if irritation persists.

EYE CONTACT: Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 15 minutes while holding the eyelids apart. Seek medical advice if discomfort continues.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:
Recommended: Water spray, fog or mist. Foam. Dry powder.

RECOMMENDATIONS:
Avoid breathing fire vapours. Use pressurised air mask if product is involved in a fire. Fire causes the formation of toxic gases; Irritating gases/vapours/fumes of Hydrogen cyanide (HCN), Nitrous gases (NOx).

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6. ACCIDENTAL RELEASE MEASURES

When dealing with a spillage, please consult the section relating to suitable protective measures. Wear necessary protective equipment. Stop leak if possible without risk. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

7. HANDLING & STORAGE

HANDLING:

Persons with impaired lung functions should not handle this preparation. Persons susceptible for allergic reactions should not handle this product. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE:

Store in tightly closed original container in a cool, dry, well-ventilated place. Keep in original container. Keep away from heat, sparks and open flame.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Name	Std	LT - mg/m ³	ST - mg/m ³
Methylenediphenyl Diisocyanate	WEL	0.02(sen)	0.07(sen)

WEL = Workplace Exposure Limits

ENGINEERING MEASURES:

Ensure adequate general and local exhaust ventilation of the working area.

RESPIRATORY PROTECTION:

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION:

Use suitable protective gloves of: Rubber, neoprene or PVC. The most suitable glove must be chosen in consultation with the gloves supplier who can inform about the breakthrough time of the glove material.

EYE PROTECTION:

Wear approved splash-proof safety goggles.

OTHER PROTECTION:

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES:

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	Viscous Liquid (light brown)	VISCOSITY:	30 mPas @ 25°C
ODOUR:	Musty (mouldy)	RELATIVE DENSITY:	1.23 @ 20°C
SOLUBILITY:	Insoluble in water	FLASH POINT:	>190°C (closed cup)
AUTO IGNITION TEMP:	260°C	BOILING POINT:	>200°C
		BULK DENSITY:	1230 kg/m ³

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10. STABILITY & REACTIVITY

Stable under normal conditions.

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers. Reacts strongly with strong acids, bases, organic chemicals and certain metal combinations.

High temperatures generate: Toxic gases/vapours/fumes of: Carbon dioxide (CO₂). Carbon monoxide (CO). Hydrogen cyanide (HCN).

11. TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD50 : >2000mg/kg (oral rat)

TOXIC CONC. - LC50 : 490 mg/l/4h (inh-rat)

No specific health warnings noted.

Harmful by inhalation. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. May cause sensitisation by inhalation. May cause stomach pain or vomiting.

Irritating to skin. Prolonged or repeated exposure may cause severe irritation. Irritating to eyes. This substance has no evidence of carcinogenic properties.

12. ECOLOGICAL INFORMATION

Not regarded as dangerous for the environment. The polymer is expected to be of low toxicity.

13. DISPOSAL CONSIDERATIONS

DISPOSE OF IN ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS

Further information on disposal methods and contractors is available from the National Association of Waste Disposal Contractors **tel:** 0207 824 8882/**fax:** 0207 824 8753.

14. TRANSPORT INFORMATION

This product is not classified as dangerous for transport.

15. REGULATORY INFORMATION



HARMFUL

R20 HARMFUL BY INHALATION
R36/37/38 IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN
R42/43 MAY CAUSE SENSITISATION BY INHALATION AND SKIN CONTACT

S23 DO NOT BREATHE VAPOUR/SPRAY
S24/25 AVOID CONTACT WITH SKIN AND EYES
S37 WEAR SUITABLE GLOVES
S45 IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW LABEL WHERE POSSIBLE).

P4 CONTAINS ISOCYANATES. SEE INFORMATION SUPPLIED BY MANUFACTURER.

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UK REGULATORY REFERENCES:

The Control of Substances Hazardous to Health Regulations 1988. Chemicals (Hazard Information & Packaging) Regulations.

ENVIRONMENTAL LISTING:

Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980. Control of Pollution Act 1974.

EU DIRECTIVES:

System of specific information relating to Dangerous Preparations. 2001/58/EEC. Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EEC.

GUIDANCE NOTES:

Workplace Exposure Limits EH40.

16. OTHER INFORMATION

Risk phrases in full:

R20 - Harmful by inhalation.

R36/37/38 - Irritating to eye, respiratory system and skin.

R42/43 - May cause sensitisation by inhalation and skin contact.

THIS SAFETY DATA SHEET FOLLOWS THE REQUIREMENTS OF DIRECTIVE 93/112/EEC. THE INFORMATION CONTAINED HEREIN IS CORRECT TO THE BEST OF OUR KNOWLEDGE AT THE DATE OF PUBLICATION AND NO LIABILITY CAN BE ACCEPTED FOR ANY LOSS, INJURY OR DAMAGE RESULTING FROM ITS USE. IT IS INTENDED AS A GUIDE FOR THE SAFE HANDLING, STORAGE AND USE UNDER NORMAL CONDITIONS, BUT IT DOES NOT NECESSARILY REFER TO THE PARTICULAR REQUIREMENT OF THE CUSTOMER WHEN FURTHER ADVICE SHOULD BE OBTAINED



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