



SAFETY DATA SHEET

Fusor 152/153 Part A

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME	Fusor 152/153 Part A
PRODUCT NO.	152153
SUPPLIER	Lord Corporation (Europe) Ltd Chemical Products Division Stretford Motorway Estate, Barton Dock Road Stretford, Manchester. M32 0ZH. United Kingdom +44 (0)161 865 8048 +44 (0)161 865 0096

2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	202-966-0	101-68-8	5-10%	Xn;R20 R42/43 Xi;R36/37/38
DIPHENYLMETHANEDIISOCYANATE -Isomers & homologues		9016-87-9	10-30%	Xn;R20. Xi;R36/37/38. R42.
METHYLENEDIPHENYL DIISOCYANATE	247-714-0	26447-40-5	10-30%	Xn;R20 R42/43 Xi;R36/37/38
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.; LOW BOILING POINT NAPHTHA	265-199-0	64742-95-6	< 1%	Carc2;R45 Xn;R65

The Full Text for all R-Phrases are Displayed in Section 16

3 HAZARDS IDENTIFICATION

Harmful by inhalation. May cause cancer. Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact.

CLASSIFICATION Carc 2;R45. Xn;R20. R42/43. Xi;R36/37/38.

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

INGESTION

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention immediately! Provide rest, warmth and fresh air.

SKIN CONTACT

Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Fire can be extinguished using: Dry chemicals, sand, dolomite etc. Carbon dioxide (CO2). Foam. Water spray, fog or mist.

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SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

UNUSUAL FIRE & EXPLOSION HAZARDS

Risk of explosion if heated.

SPECIFIC HAZARDS

Fire creates: Toxic gases/vapours/fumes of Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen cyanide (HCN). Oxides of Nitrogen.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, water courses or onto the ground.

SPILL CLEAN UP METHODS

Wear necessary protective equipment. Ventilate well. Avoid contact with skin or inhalation of spillage, dust or vapour. Collect with absorbent, non-combustible material into suitable containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Avoid water on spilled material or leaking containers. Do not contaminate water sources or sewer.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

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

STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place. Keep in original container. Store below 25°C.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	MEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)
DIPHENYLMETHANEDIISOCYANATE -Isomers & homologues	MEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)
METHYLENEDIPHENYL DIISOCYANATE	MEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)

INGREDIENT COMMENTS

MEL = Maximum Exposure Limit. OES = Occupational Exposure Standard.

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation. Must not be handled in confined space without sufficient ventilation.

RESPIRATORY EQUIPMENT

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

HAND PROTECTION

Protective gloves should be used if there is a risk of direct contact or splash. SPECIFIC RECOMMENDATIONS. Polyvinyl chloride (PVC).

EYE PROTECTION

Wear approved safety goggles. Use face shield in case of splash risk.

OTHER PROTECTION

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

Fusor 152/153 Part A**HYGIENE MEASURES**

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

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Brown		
ODOUR	No characteristic odour.		
RELATIVE DENSITY	1.50 - 1.60 @ 20 °c	VAPOUR PRESSURE	@ °c
VOLATILE BY VOL. (%)	0.8	FLASH POINT (°C)	93 Sh CC (Setaflash closed cup).

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

MATERIALS TO AVOID

Strong alkalis. Strong acids. Strong oxidising substances. Water, steam, water mixtures.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen cyanide (HCN). Oxides of: Nitrogen.

11 TOXICOLOGICAL INFORMATION**GENERAL INFORMATION**

Preparation contains small volumes of isocyanate which may cause allergic reaction and irritation of respiratory system.

INHALATION

Harmful by inhalation. May cause sensitisation by inhalation. May cause irritation to the respiratory system.

INGESTION

Harmful if swallowed.

SKIN CONTACT

Irritating to skin. May cause sensitisation by skin contact.

EYE CONTACT

Irritating to eyes.

HEALTH WARNINGS

Known or suspected carcinogen for humans. Known or suspected mutagen. Preparation contains small volumes of isocyanate which may cause allergic reaction and irritation of respiratory system. Prolonged exposure to the preparation may cause serious health effects.

ROUTE OF ENTRY

Inhalation. Ingestion. Skin and/or eye contact.

TARGET ORGANS

Skin. Eyes. Respiratory system, lungs.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

No data on possible environmental effects have been found.

13 DISPOSAL CONSIDERATIONS**GENERAL INFORMATION**

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

Fusor 152/153 Part A**14 TRANSPORT INFORMATION**

ADR CLASS Not classified for transportation. MARINE POLLUTANT No.

15 REGULATORY INFORMATION

LABELLING



Toxic

CONTAINS

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE
 DIPHENYLMETHANEDIISOCYANATE -Isomers & homologues
 METHYLENEDIPHENYL DIISOCYANATE
 SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.; LOW BOILING POINT NAPHTHA

RISK PHRASES

R20 Harmful by inhalation.
 R45 May cause cancer.
 R36/37/38 Irritating to eyes, respiratory system and skin.
 R42/43 May cause sensitisation by inhalation and skin contact.

SAFETY PHRASES

S23 Do not breathe vapour/spray.
 S24 Avoid contact with skin.
 S37 Wear suitable gloves.
 S38 In case of insufficient ventilation, wear suitable respiratory equipment.
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
 S53 Avoid exposure - obtain special instructions before use.
 S60 This material and its container must be disposed of as hazardous waste.
 P4 Contains isocyanates. See information supplied by the manufacturer.
 P11 Restricted to professional users.

ENVIRONMENTAL LISTING

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

EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EEC.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Occupational Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

16 OTHER INFORMATION

INFORMATION SOURCES

Dangerous Properties of Industrial Materials Report, N.Sax et.al.

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SDS NO. LC35-FUSOR 152/153 Part A-01-27/1/04

Fusor 152/153 Part A

RISK PHRASES IN FULL

R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42	May cause sensitisation by inhalation.
R42/43	May cause sensitisation by inhalation and skin contact.
R45	May cause cancer.
R65	Harmful: may cause lung damage if swallowed.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.