



SAFETY DATA SHEET

Fusor 142/143 Part A

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME	Fusor 142/143 Part A
PRODUCT NO.	75450G
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

GENERAL INFORMATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INHALATION

Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention. If breathing stops, provide artificial respiration. For breathing difficulties oxygen may be necessary.

INGESTION

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

SKIN CONTACT

Remove affected person from source of contamination. Promptly flush contaminated skin with soap or mild detergent and water. Promptly remove clothing if penetrated and flush the skin with water. Get medical attention if any discomfort continues.

EYE CONTACT

Remove victim immediately from source of exposure. 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

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EXTINGUISHING MEDIA

Fire can be extinguished using: Foam. Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES

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

May develop highly toxic or corrosive fumes if heated. Vapours are heavier than air and may spread near ground to sources of ignition.

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

Clean-up personnel should use respiratory and/or liquid contact protection. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb in vermiculite, dry sand or earth and place into containers.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Use explosion proof electric equipment. Persons susceptible for allergic reactions should not handle this product. Persons with impaired lung functions should not handle this preparation.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a cool, dry well-ventilated place. Keep in original container.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m ³	ST - ppm	ST - mg/m ³
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	MEL		0.02 mg/m ³ (Sen)		0.07 mg/m ³ (Sen)
DIPHENYLMETHANEDIISOCYANATE -Isomers & homologues	MEL		0.02 mg/m ³ (Sen)		0.07 mg/m ³ (Sen)
METHYLENEDIPHENYL DIISOCYANATE	MEL		0.02 mg/m ³ (Sen)		0.07 mg/m ³ (Sen)

INGREDIENT COMMENTS

OES = Occupational Exposure Standard.

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide sufficient ventilation during operations which cause vapour formation.

RESPIRATORY EQUIPMENT

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

HAND PROTECTION

Use protective gloves. Use protective gloves made of: Neoprene. or Nitrile.

Fusor 142/143 Part A**EYE PROTECTION**

Use approved safety goggles or face shield.

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. Promptly remove any clothing that 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	1.560 - 1.580 @ 20 °C	VAPOUR PRESSURE	@ °C
VOLATILE BY VOL. (%)	0.8	FLASH POINT (°C)	> 94 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. Reacts with alkalis and amines generating excessive heat.

MATERIALS TO AVOID

Amines. 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. Irritating to respiratory system. May cause sensitisation by inhalation.

INGESTION

Toxic if swallowed.

SKIN CONTACT

Irritating to skin. May cause sensitisation by skin contact.

EYE CONTACT

Irritating to eyes.

HEALTH WARNINGS

Prolonged exposure to the preparation may cause serious health effects. Known or suspected carcinogen for humans.

ROUTE OF ENTRY

Inhalation. Skin and/or eye contact. Ingestion.

TARGET ORGANS

Respiratory system, lungs. Skin. Eyes.

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.

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DISPOSAL METHODS

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

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.

UK REGULATORY REFERENCES

Petroleum (Consolidation) Act, as amended 1984 SI 1244. Highly Flammable Liquid Regulations 1972.

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. Control of Substances Hazardous to Health.

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.

REVISION DATE

02/11/04

REV. NO./REPL. SDS GENERATED 01-17/12/02

Fusor 142/143 Part A

SDS NO. LC35-FUSOR 142/143 PART A-02-02/11/04

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.