



SAFETY DATA SHEET
ARDEX POLYURETHANE ISOCYANATE

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	ARDEX POLYURETHANE ISOCYANATE
PRODUCT NO.	ARDEX R8P PART B, ARDEX R10P PART B, ARDEX R15P PART B, ARDEX R70P PART B, ARDEX R80P PART B, ARDEX R90P PART B, ARDEX AF2510 Part B
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2 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.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
DIPHENYLMETHANEDIISOCYANATE -Isomers & homologues		9016-87-9	10-30%	Xn;R20. Xi;R36/37/38. R42.
METHYLENEDIPHENYL DIISOCYANATE	247-714-0	26447-40-5	60-100%	Xn;R20 R42/43 Xi;R36/37/38

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

4 FIRST-AID MEASURES

GENERAL INFORMATION

Remove affected person from source of contamination.

NOTES TO THE PHYSICIAN

Treatment : Treat according to symptoms (decontamination, vital functions), no known specific antidote, administer corticosteroid dose aerosol to prevent pulmonary odema. Hazards: Symptoms can appear later

INHALATION

Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air.

INGESTION

DO NOT INDUCE VOMITING! Immediately rinse mouth and drink plenty of water. Call an ambulance and take these instructions.

SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

Remove victim immediately from source of exposure. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention. Consult a physician for specific advice.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Water spray.

SPECIAL FIRE FIGHTING PROCEDURES

Cool containers exposed to flames with water until well after the fire is out.

ARDEX POLYURETHANE ISOCYANATE**SPECIFIC HAZARDS**

Carbon dioxide (CO₂). Carbon monoxide (CO). Hydrogen cyanide (HCN). Isocyanate Oxides of: Nitrogen.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

Provide adequate ventilation. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

ENVIRONMENTAL PRECAUTIONS

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

SPILL CLEAN UP METHODS

For large amounts: Pump off product. Absorb with sand or other inert absorbent. Neutralize with a solution of 5-10% Sodium carbonate, 0, 2-2% detergents and 90-95% water.

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.

STORAGE PRECAUTIONS

Keep away from water. Keep away from food, drink and animal feeding stuffs. Store away from Acids. Alkalies. Suitable containers: mild steel, stainless steel. Suitable containers: polyethylene. Store in a cool place. Store in tightly closed original container in a well-ventilated place. Formation of CO₂ and build up of pressure possible. Protect from temperatures below: 20C Protect from temperatures above: 35 C

STORAGE CLASS

Chemical storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m ³	ST - ppm	ST - mg/m ³
DIPHENYLMETHANEDIISOCYANATE -Isomers & homologues	WEL		0.02 mg/m ³ (Sen)		0.07 mg/m ³ (Sen)
METHYLENEDIPHENYL DIISOCYANATE	WEL		0.02 mg/m ³ (Sen)		0.07 mg/m ³ (Sen)

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT**ENGINEERING MEASURES**

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

Respiratory protection in case of vapour/aerosol release. Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

HAND PROTECTION

Use protective gloves. Butyl rubber gloves are recommended. Nitrile gloves are recommended.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

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

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

ARDEX POLYURETHANE ISOCYANATE

APPEARANCE	Liquid		
COLOUR	Colourless to pale yellow		
ODOUR	Musty (mouldy).		
SOLUBILITY	Hydrolyzes to form water-insoluble compounds		
BOILING POINT (°C)	>200 mBar	RELATIVE DENSITY	1.22 25 C
VAPOUR PRESSURE	<0.01 Pa 25 C	VISCOSITY	50-100 mPas 25
FLASH POINT (°C)	>200 C	AUTO IGNITION TEMPERATURE (°C)	>530

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions. Thermal decomposition >230 C

CONDITIONS TO AVOID

Avoid contact with acids and oxidising substances.

MATERIALS TO AVOID

Amines. Water. Alcohols. Acids. Alkalines.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire, toxic gases (CO, CO₂, NO_x) may be formed.

11 TOXICOLOGICAL INFORMATION**INHALATION**

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

INGESTION

Harmful if swallowed.

SKIN CONTACT

Irritating to skin. May cause sensitisation by skin contact.

EYE CONTACT

Irritating to eyes.

TARGET ORGANS

Skin. Eyes. Respiratory system, lungs.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

The product is not expected to be toxic to aquatic organisms.

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

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

14 TRANSPORT INFORMATION**GENERAL**

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

No transport warning sign required.

ROAD TRANSPORT NOTES

Not Classified

RAIL TRANSPORT NOTES

Not Classified.

SEA TRANSPORT NOTES

Not Classified.

AIR TRANSPORT NOTES

Not Classified.

MARINE POLLUTANT

No.

15 REGULATORY INFORMATION**LABELLING**

ARDEX POLYURETHANE ISOCYANATE



Harmful

CONTAINS

DIPHENYLMETHANEDIISOCYANATE -Isomers & homologues
 METHYLENEDIPHENYL DIISOCYANATE

RISK PHRASES

R20 Harmful by inhalation.
 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.
 S24/25 Avoid contact with skin and eyes.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 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).
 S60 This material and its container must be disposed of as hazardous waste.
 P4 Contains isocyanates. See information supplied by the manufacturer.

STATUTORY INSTRUMENTS

Control of Substances Hazardous to Health. Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

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

16 OTHER INFORMATION

REVISION DATE 12/06/2008

REV. NO./REPL. SDS GENERATED 1

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.

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.