



HEALTH & SAFETY DATA SHEET

SAFETY DATA SHEET according to Regulation (EU) No. 907/2006

Part B Unisects 11, 11MV, 11EU, 11MVEU, 11HV, 11HVEU, 11HVMF, 11MF, 12, 12HV(C), 1225, 2160MF

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:

Product Name: Part B Unisects 11, 11MV, 11EU, 11MVEU, 11HVMF, 11HV, 11HVEU, 11MF, 12, 12HV(C), 1225, 2160MF

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2. HAZARDS IDENTIFICATION:

May cause skin sensitisation

3. COMPOSITION/INFORMATION ON INGREDIENTS:

INGREDIENT NAME:	CAS No:	CONTENT:	HEALTH:	RISK:
Hexamethylene Diisocyanate	822-06-0	0-1%	T	R 23,36/27/38, 42/43
Hexamethylene Diisocyanate Prepolymer - Proprietary Information			N	R51/53

4. FIRST AID MEASURES:

General: Using appropriate personal protective equipment, immediately remove the affected persons from the source of contamination.

Inhalation: Immediately remove affected persons from the source of contamination and provide fresh air. Seek medical advice if any discomfort persists.

Ingestion: **DO NOT INDUCE VOMITING.** Seek immediate medical attention showing the labels on the product cans.

Skin: Immediately remove all contaminated clothing and wash the affected areas with soap

or detergent and plenty of warm water. Seek medical attention if any irritation persist.

Eyes: Promptly wash the eyes with lots of water and seek immediate medical attention.

5. FIRE FIGHTING MEASURES:

Extinguishing Media:

Use foam, dry powder, chemical or carbon dioxide extinguishers or sand. Do not use water if avoidable.

Special Firefighting Procedures:

Avoid all fumes. Use water spray only to cool drums.

Unusual Fire & Explosion Hazards:

Fire causes release of toxic gases.

Protective Measures in Case of Fire:

Wear self contained breathing apparatus and suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES.

Personal Protection in Spill

Ensure adequate ventilation. Wear appropriate protective equipment

Precautions to Protect the Environment

Prevent the product from entering drains, sewers and surface or ground water. Notify Local Authority and other regulatory bodies if such contamination occurs.

Spill Clean-up Methods

Wear suitable respiratory and liquid contact protection.

Absorb in dry sand or earth and place in seal containers for disposal according to local regulations. Flush spillage areas with water but ensure the water is collected for suitable disposal. All drums must be labelled showing the hazard and the exact drum contents.

7. HANDLING AND STORAGE:

Usage Precautions:

Provide good ventilation.

Avoid contact with water, alcohols, amines, acids, alkalis and polyols. These react with isocyanates.

Storage Precautions:

Keep in cool, dry ventilated storage between 15°C and 25°C

Keep containers tightly closed after flushing with dry nitrogen.

Keep separate from food, feedstuffs, fertilisers, acids, alkalis, alcohols and polyols

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

Ingredient Name	CAS No:	STD:	LT EXP. 8 Hrs	ST EXP. 15 Min
Hexamethylene Diisocyanate	822-06-0	MEL	0.02 mg/m ³	0.07 mg/m ³

Ingredients Comments:

MEL = Maximum Exposure Limit

Protective Measures:

Eye protection, gloves and suitable face mask

Process Conditions:

Provide eyewash and quick drench stations

Ventilation:

Provide adequate ventilation.

Respirators:

No specific recommendations are made but respiratory protection must be used if levels exceed the Occupational Exposure Level (OEL).

Protective Gloves:

Rubber or plastic

Eye Protection:

Wear approved chemical safety goggles

Other Protection:

Wear appropriate protective clothing which will minimise the possibility of skin contact.

Hygienic Work Practices:

Wash at the end of each work shift and before eating, smoking or using toilets

Promptly remove all clothing that becomes contaminated

Use appropriate skin/barrier creams

Do not eat or drink whilst working with the material. DO NOT SMOKE IN THE WORK AREA.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Liquid
Colour:	Natural colour (very pale yellow)
Odour/Taste	Odourless or no characteristic odour
Solubility:	Reacts with water and alcohols. Readily soluble in most organic solvents
Volatility:	Emits vapours during heating
Density: :	1.17 gm/cc @ 25°C
Viscosity:	ca. 1100 mPas @ 20°C
Flash Point:	149°C Closed Cup
Auto Ignition Temperature:	480°C

10. STABILITY AND REACTIVITY:

Stability: No particular stability concerns

Conditions to Avoid :

Exothermic reaction with water, alcohols polyols, amines acids and alkalis

Hazardous Polymerisation:

Will not auto-polymerise

Materials to Avoid:

Acids, alkalis, water, alcohols, amines, polyols

Hazardous Decomposition Products:

In a fire or at high temperatures the product will decompose to release carbon

monoxide (CO) and carbon dioxide (CO₂) and oxides of nitrogen (NO_x)

11. TOXICOLOGICAL INFORMATION:

- Inhalation:** Vapours will cause irritation of the upper respiratory tract and on prolonged exposure will cause sensitisation manifested in breathing difficulties. Ultimately this can lead to Occupational Asthma which is a reportable disease. Its is essential that all personnel with bronchial or complaints; skin diseases, allergies and Asthma should be kept out of the area in which isocyanates are used.
- Skin:** Normally causes a mild surface tanning effect. Prolonged exposure, especially on sensitive skin, may cause irritation and sensitisation.
- Eyes:** Irritating to the eyes

12. ECOLOGICAL INFORMATION:

- Ecological Information:**
Do not allow to escape into sewers. ground water, water courses or soil.
- Degradability:**
Not readily biodegradable

13. DISPOSAL CONSIDERATIONS:

- Disposal Methods:**
Part A should be mixed with Part B, allowed to set and then be disposed of according to Local Authority requirements. Product for disposal should be kept in sealed containers and be disposed of according to Local authority Regulations.

14. TRANSPORT INFORMATION:

- GENERAL:** Not classified as hazardous under transport regulations. Keep separate from foodstuffs.
- UN No. Road: Not applicable

15. REGULATORY INFORMATION:

- Label for Supply:** Irritant
- Risk Phrases:**
R43
- Safety Phrases:**
P4; S7/8; S24, S37
- UK Regulatory References:**
Chemicals (Hazard Information & Packaging) Regulations 1993. Health & Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 1988.
- EU Directives:**
EC Directive 82\501\EEC - 24/6/82
Dangerous Preparations Directive 88\379. System of Specific Information Relating to

Statutory Instruments:

Chemicals (Hazard Information and Packaging) Regulations 1993. Control of Substances Hazardous to Health Regulations 1988

Approved Codes of Practice:

Safety Data Sheets for Substances and Preparations L37. 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)
Isocyanates Toxic Hazards and Precautions EH16

16. OTHER INFORMATION:

Unisect Part B's are designed to be used with Unisect Part A's and the Health & Safety Data for Unisect Part A's should be studied before use of these products.

This Health & Safety Data Sheet has been compiled using data relating to the constituent parts of Unisect Part B's and whilst no synergistic effects are known the existence of these effects cannot be totally excluded.

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