

**SAFETY DATA SHEET**  
IN ACCORDANCE WITH 91/155/EEC

**1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY:**

**OKM ISO 120**

OKM QUÍMICA ORTOPÉDICA S.A.  
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17742 AVINYONET DE PUIGVENTÓS GIRONA (SPAIN)

IN CASE OF EMERGENCY: Tel. +34 972. 67. 70. 95

**2. PRODUCT COMPOSITION/INFORMATION ON INGREDIENTS:**

Composition based on diphenylmethane diisocyanate (MDI)

CAS #: 101-68-8

Hazard symbol: Xn, Harmful

Risk phrases: R20 - R36/37/38 - R42

**3. HAZARDS IDENTIFICATION:**

Harmful by inhalation. Do not breathe gases, fumes or vapours. Repeated or prolonged exposure to vapours, may cause breathing alterations and sensitizations. Irritating to eyes and skin.

**4. FIRST AID RECOMMENDATIONS:**

**Eye contact:** Irritating. Rinse with plenty of water and obtain medical attention, preferably from an ophthalmologist.

**Skin contact:** Irritating. Wash with plenty of water and soap. Seek medical advice immediately.

**Ingestion:** Seek medical advice immediately. Do not induce vomiting.

**Inhalation:** In case of irritation of the respiratory track, seek medical advice.

**5. FIRE-FIGHT PROCEDURES:**

Extinguishing products: Dry powder, foam, CO<sub>2</sub>. In case of a major fire and if no other suitable extinguishing products is available, spray water could be used.

During a fire, carbon monoxide, nitrogen oxide, isocyanate vapours and slight traces of hydrocyanic acid may be released. In case of fire fighting it is necessary to wear breathing protection with independent air feeding.

**6. ACCIDENTAL RELEASE MEASURES:**

Avoid the spillage to filter into sewers, basements and watercourses. In the contrary, inform the authorities. Cover the spillage with suitable wet material to absorb liquids (i.e. sawdust, products based on calcium hydrated silicate, sand). Approximately after one hour collect the wastes into appropriate waste containers, do not close (caution! CO<sub>2</sub> release). Keep humid and leave these waste products in a fresh and safe place during 7-14days. The reaction between water and hot isocyanate could be strong.

**7. HANDLING AND STORAGE:**

**Handling:** Avoid skin contact. Do not breathe vapours. Wear gloves, goggles, safety mask and suitable clothing. Provide enough ventilation. Wash hands during resting or after work.

**Storage:** Keep drums correctly closed in dry and well ventilated places. Avoid moisture. Strongly reacts in contact with water producing an exothermic reaction developing CO<sub>2</sub> which may cause pressure built-up into closed drums with risk of bursting. Keep away from strong bases, acids and hydroxyl groups products. Storage temperature between 15-30°C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Wear suitable clothing (cotton or polyester) and gloves (PVC) and eyes/face protection. Avoid breathing vapours. If gun applied it is recommended to wear fresh air mask or A2-P2 filter.

Take off immediately the contaminated clothing. Keep working clothing in separate places.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

### TEST:

-Appearance:	liquid
-Color:	clear yellow
-Odor:	earthy
-pH:	NA
-Boiling point:	
-Solidification point:	< 0°C
-Flash point:	> 200°C
-Autoignition temperature:	> 400°C
-Explosive limits:	not determinated
-Water solubility:	not soluble, reacts
-Density:	1,20 g/cm <sup>3</sup>
-Vapor pressure:	<0.00001 mbar
-Vapor density:	
-Viscosity: 25°C	250 mPa.S

## 10. STABILITY AND REACTIVITY:

<b>Thermal decomposition:</b>	Decomposes beyond 250°C producing toxic gases.
<b>Hazardous decomposition products:</b>	None if appropriately handled and stored.
<b>Hazardous reactions:</b>	None if appropriately handled. Exothermically reacts with amines, alcohol and water. In contact with water produces CO <sub>2</sub> development and built-up of pressure into closed drums with the consequently risk of bursting.

## 11. TOXICOLOGICAL INFORMATION:

<b>LD50 oral, rat:</b>	<5000 mg/kg
<b>Eyes contact:</b>	Irritating.
<b>Skin contact:</b>	Irritating.
<b>Inhalation:</b>	Irritating. Throat dryness. Headache and breathe difficulties. May cause allergic reactions.

## 12. ECOLOGICAL INFORMATION:

Avoid filtering into drains, watercourses or soil. The product reacts with water on surface contact forming CO<sub>2</sub> and finally producing a no-soluble and solid product that is chemically inert and not biodegradable.

## 13. DISPOSAL CONSIDERATIONS:

Disposal must be made in accordance with governmental regulations, and it must be disposed off or burned in a controlled and permitted hazardous waste disposal facility. Neutralize the waste products into drums with decontaminating or waste polyol before disposal.

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**14. TRANSPORT INFORMATION:**

NO RESTRICTIONS

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**15. REGULATORY INFORMATION:**

EEC classification: Harmful. Contains diphenylmetane diisocyanate.

Hazard symbol: Xn.

R PHRASES: 20: Harmful by inhalation.  
36/37/38: Irritating to eyes, skin and respiratory system.  
42: May cause sensitization by inhalation.

EEC classification: Harmful. Contains diphenylmetane diisocyanate.

Hazard symbol: Xn.

R PHRASES: 20: Harmful by inhalation.  
36/37/38: Irritating to eyes, skin and respiratory system.  
42 May cause sensitization by inhalation.

S PHRASES: 23: Do not breathe vapours.  
26: In case of contact with eyes, immediately rinse with plenty of water and seek medical advice.  
28: After contact with skin, wash immediately with plenty of hot and soapy water  
36/37: Wear suitable protective clothing and gloves.  
38: In case of poor ventilation, use an appropriate respiratory kit.  
39: Wear suitable eye protection  
45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

P PHRASES: 91: Contains isocyanates. Check with the information given by the manufacturer.

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**16. OTHER INFORMATION:**

This foam has been prepared in accordance with directive 91/155/CEE

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THE INFORMATIONS CONTAINED IN THIS SAFETY DATA SHEET ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE AND THEY ARE NOT MEANT TO GUARANTEE SPECIFIC PROPERTIES OF THE PRODUCT.

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