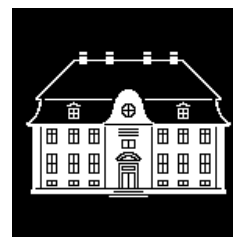


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Material Safety Data Sheet

<p>1. <u>Identification of material/identification of manufacture</u> Identification of material: PR-no.: - Freunds Adjuvant, Complete Characteristics: Mixture of emulsifier and mineral oil with Heat killed bacteria of <i>Mycobacterium tuberculosis</i>. Not for human use.</p>																				
<p>2. <u>Composition/Contents</u></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: center;">Quantity</th> <th style="text-align: center;">CAS</th> <th style="text-align: center;">Classification</th> <th style="text-align: center;">Remarks</th> </tr> </thead> <tbody> <tr> <td>Arlacel A (mannide monooleate)</td> <td style="text-align: center;">15%</td> <td style="text-align: center;">9049-98-3</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Medic way M7</td> <td style="text-align: center;">85%</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td><i>M. tuberculosis</i></td> <td style="text-align: center;">0,5 mg/ml</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> </tbody> </table>	Name	Quantity	CAS	Classification	Remarks	Arlacel A (mannide monooleate)	15%	9049-98-3	-	-	Medic way M7	85%	-	-	-	<i>M. tuberculosis</i>	0,5 mg/ml	-	-	-
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<p>3. <u>Hazards identification</u> Avoid contact with skin Avoid contact with eyes Avoid ingestion</p>																				
<p>4. <u>First aid measures</u></p> <table style="width: 100%;"> <tr> <td style="width: 30%;">Inhalation:</td> <td>Fresh air. If not breathing give artificial respiration.</td> </tr> <tr> <td>Skin:</td> <td>Wash thoroughly with soap and water.</td> </tr> <tr> <td>Eyes:</td> <td>Wash thoroughly with water</td> </tr> <tr> <td>Swallowing:</td> <td>Wash mouth with water and drink water or milk. Seek medical advice.</td> </tr> </table>	Inhalation:	Fresh air. If not breathing give artificial respiration.	Skin:	Wash thoroughly with soap and water.	Eyes:	Wash thoroughly with water	Swallowing:	Wash mouth with water and drink water or milk. Seek medical advice.												
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<p>5. <u>Fire-fighting measures</u> Water spray, CO₂ or powder extinguisher. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes</p>																				
<p>6. <u>Accidental release measures</u> Collect spill with sand and dispose as chemical waste. Rinse the spot with soap and water.</p>																				
<p>7. <u>Handling and storage</u> Handling: Use gloves. Storage: Bottles must be stored cold (+2-+8°C).</p>																				
<p>8. <u>Exposure control and personal protection</u> Chemical safety goggles. Compatible chemical-resistant gloves. Safety shower and eye bath. Keep tightly closed.</p>																				
<p>9. <u>Physical and chemical properties</u></p>																				

	Flame point : 148°C	
10.	<u>Stability and reactivity</u> Incompatibilities: strong oxidizing agents Hazardous combustion or decomposition products: toxic fumes of carbon monoxide, carbon dioxide	
	<u>Toxicological information</u> May be harmful by inhalation, ingestion, or skin absorption. May cause eye and skin irritation. Material may be irritating to mucous membranes and upper respiratory tract. May be carcinogenic. Injury of skin by needle containing the product is expected to give a local inflammatory reaction within 48 hours. This tuberculin like reaction may last for months or even years. Immediate excision of the injected site may prevent the subsequent development of a tuberculoid granuloma. However scarring from excision on hands may be just as troublesome as the inflammatory reaction.	
11.	<u>Ecological information</u> Data not available	
	<u>Disposal</u> Residues and expired vials must be discarded as chemical waste.	
12.	<u>Transport information</u> Not subject to transport regulations.	
13.	<u>Regulatory information</u> Labelling according to EC directives: Symbol: - R-phrases: R22, R40 S-phrases: S24/25, S26 Further regulatory information:	
14.	Other information THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. Statens Serum Institut shall not be held liable for any damage resulting from handling or from with contact with the above product. Edition: (Revision) date: Modifications: 01 29.07.2003 - Established by: PHU	