

Karess® HE Film

UF2003

SECTION 1: Material Identification

Product Name	Karess® HE Film
Recommended Use	Lamination
Uses Advised Against	No further information available.
Distributor Name	Nobelus Europe Ltd. Denmark House Victoria Way Studlands Park Industrial Estate Newmarket CB8 7AU, UK
Emergency Phone Number	+44 (0) 1638 591226

SECTION 2: Hazard Identification

Hazard Classification	The substance is not classified according to the CLP regulation (EC) No 1272/2008.
Signal Word	Void
Hazard Statements	Void
Pictograms	Void
Precautionary Statements	Void
CAS Hazard Class	No data available.
Results of PBT and vPvB Assessment	Not Applicable.
% of Product with Unknown Acute Toxicity	No data available.
Unusual Fire & Explosion Hazards	No data available.
Label Elements	No data available.

The film can pick up a strong static charge during processing. Avoid discharge into dust or solvent as a flash fire or explosion may result.

SECTION 3: Composition / Information on Ingredients

Chemical Name and Synonyms	CAS No.	Concentration
Wet lamination film	9003-07-0	No data available.
Varnish	No data available.	
Hardener	28182-81-2	25<50%
	822-06-0	<0.5%
	53880-05-0	12.5<20%
	9046-01-9	5<10%
	98-94-2	1<2.5%
	4098-71-9	<0.5%
Impurities & Stabilizing Additives	No data available.	
Trade Secret Claims	No data available.	

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SECTION 4: First Aid Measures

General Information	No special measures required.
Following Inhalation	Supply fresh air; consult doctor in case of complaints.
After Eye Contact	Rinse opened eye for several minutes under running water.
After Skin Contact	Immediately wash with water and soap and rinse thoroughly.
After Ingestion	Call for a doctor immediately.
Important Symptoms and Effects, Both Acute and Delayed	No further relevant information available.
Recommendations for Immediate Medical Care / Special Treatment	No further relevant information available.

SECTION 5: Fire Fighting Measures

General Information	No data available.
Suitable Extinguishing Agents / Equipment	CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Unsuitable Extinguishing Agents / Equipment	Water with full jet.
Special Exposure Hazards Arising from the Substance itself, Combustion Products, or Resulting Gases	No further relevant information available.
Special Protective Equipment for Fire Fighters	No special measures required.
Fire Fighting Procedures and Precautions	No data available.
Heat Value	No data available.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures	Not Required.
Environmental Precautions and Protective Procedures	No special measures required.
Methods for Containment and Cleanup	Pick up mechanically.
References to Other Sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and Storage

Precautions for Safe Handling	No special measures required.
Conditions for Safe Storage including Incompatibilities	No special requirements.
Shelf Life	No data available.
Precautions against Fire and Explosion	No special measures required.

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SECTION 8: Exposure Controls / Personal Protection

Control Parameters	No data available.
Permissible Exposure Limits (PELs)	No data available.
ACGIH Threshold Limit Values (TLVs)	No data available.
General Information Regarding PPE	The usual precautionary measures are to be adhered to when handling chemicals.
Hand, Skin, and Body Protection	Protective gloves.
Eye Protection	Not Required.
Respiratory Protection	No data available.
Special Requirements for PPE	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Appropriate Engineering Controls / Ventilation	No further data; see section 7.
Thermal Hazard Protection	No data available.

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SECTION 9: Physical and Chemical Properties

Appearance / Color	No data available.
State of Matter	No data available.
Upper / Lower Flammability Limits	Not Determined.
Upper / Lower Explosion Limits	Not Determined.
Odor	Characteristic
Odor Threshold	Not Determined.
Vapor Density	No data available.
pH	Not Applicable.
Relative Density	No data available.
Melting Point / Melting Range	Undetermined
Freezing Point / Freezing Range	No data available.
Solubility(ies)	No data available.
Initial Boiling Point / Boiling Range	Undetermined.
Flash Point	Not Applicable.
Evaporation Rate	Not Applicable.
Density	Not Determined.
Relative Density	Not Determined.
Flammability (solid, gas)	Product is not flammable.
Partition Coefficient (N-Octane / Water)	Not Determined.
Auto-Ignition Temperature	Not Determined.
Viscosity: Dynamic / Kinematic	Not Applicable.
Decomposition Temperature	Not Determined.
Danger of Explosion	Product does not present an explosion hazard.
Vapor Pressure	Not Applicable.
Specific Gravity	No data available.
Spontaneous Combustion	No data available.
Solubility / Miscibility with water	Not Determined.
Solvent Content	0.00%
Oxidization	No data available.
Distribution Coefficient	No data available.
Molecular Weight	No data available.
Other Information	No further relevant information available.

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SECTION 10: Stability & Reactivity	
Reactivity	No data available.
Chemical Stability	No data available.
Possibility of Hazardous Reactions	No dangerous reactions known.
Thermal Decomposition / Conditions to Avoid	No decomposition if used according to specifications. No further relevant information available.
Incompatible Materials	No data available.
Hazardous Decomposition Products	No dangerous decomposition products known.
Hazardous Polymerization	This material is not known to have any hazardous polymerization characteristics.
SECTION 11: Toxicological Information	
Acute Toxicity	No data available.
Primary Irritant Effects on the Skin	No Irritant Effect.
Primary Irritant Effects on the Eye	No Irritant Effect.
Primary Irritant Effects upon Inhalation	No data available.
Primary Irritant Effects upon Ingestion	No data available.
Delayed, Immediate, and Chronic Effects from Exposure	No data available.
Symptoms	No data available.
Carcinogen Information: if Listed in NTP or IARC	No data available.
Sensitization	No sensitizing effects known.
STOT (Specific Target Organ Toxicity): Single and Repeated Exposure	No data available.
Additional Toxicological Information	When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us. The substance is not subject to classification according to the latest version of the EU lists.
SECTION 12: Ecological Information	
Ecological & Aquatic Toxicity	No further relevant information available.
Persistence and Degradability	No further relevant information available.
Bioaccumulative Potential	No further relevant information available.
Mobility in Soil / Agronomical Movement	No further relevant information available.
Other Hazardous Effects	No data available.
Additional Ecological Information	Generally not hazardous for water.

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SECTION 13: Disposal Considerations

Disposal Method and Precautions	Smaller quantities can be disposed of with household waste.
Recommended Cleansing Agents	Water, if necessary together with cleansing agents.
Contaminated Packaging	Smaller quantities can be disposed of with household waste.
General Comment	Dispose according to Local, Federal, and State Regulations

Refer to Section 8 for more information regarding minimizing exposure and protection.

SECTION 14: Transport Information

UN Number	No data available.
UN Proper Shipping Name	Void
Transport Hazard Class(es)	No data available.
Class	Void
Packing Group Number	Void
Environmental Hazards	Void
Marine Pollutant	No data available.
Special Precautions for User	Not Applicable.
UN "Model Regulation"	No data available.
Bulk Transport Regulations	Not Applicable.
Other Transport Regulations	No data available.

SECTION 15: Regulatory Information

NFPA Grade	No data available.
Federal Regulations	No data available.
State Regulations	No data available.
Chemical Safety Assessment	A Chemical Safety Assessment has not been carried out.

SECTION 16: Other Information

Last Revision	June 2022
Training Instructions	None Known
Data Sources	Data provided is from Manufacturer's SDS Sheets.
Disclaimer	This information is based on our supplier's present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.