

# Karess® 34 mic Laminate

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## SECTION 1: Material Identification

Product Name	Karess 34 mic Laminate
Recommended Use	Thermal Lamination.
Uses Advised Against	No data 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	No data available.
Signal Word	No data available.
Hazard Statements	No data available.
Pictograms	No data available.
Precautionary Statements	No data available.
CAS Hazard Class	No data available.
Results of PBT and vPvB Assessment	No data available.
% of Product with Unknown Acute Toxicity	No data available.
Unusual Fire & Explosion Hazards	No data available.
Label Elements	No data available.
Information Pertaining to Particular Dangers for Man and Environment	The molten product adheres to the skin and causes burns. Spilled material may present a slipping hazard. Possible production of electrostatic charging when used. The working steams can irritate the eyes as well as the respiratory tract.

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
Polypropylene Homopolymer	9003-07-0	50% Under Max.
Acrylic Copolymer	No data available.	2~10%
Silica	112926-00-8	1% Under Max.
Additive	No data available.	1% Under Max.
Etheye-Vinyl Acetate Copolymer	24937-78-8	46% Over Min.
Impurities & Stabilizing Additives	No data available.	
Trade Secret Claims	No data available.	

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## SECTION 4: First Aid Measures

General Information	The measures listed below apply to critical situations (fire, incorrect process conditions).
Following Inhalation	In case of excessive inhalation of fumes move the person to fresh air. Call for medical help. Keep person warm, if necessary give mouth-to-mouth resuscitation, or artificial respiration.
After Eye Contact	Rinse opened eye for several minutes under running water, then consult a doctor.
After Skin Contact	After contact with the molten product, cool rapidly with cold water. Do not pull solidified product away from the skin. Seek immediate medical advice.
After Ingestion	No specific measures have to be taken if the product is swallowed. Get medical advice if necessary.
Important Symptoms and Effects, Both Acute and Delayed	No data available.
Recommendations for Immediate Medical Care / Special Treatment	No data available.

## SECTION 5: Fire Fighting Measures

General Information	Heat Value: 8000 - 11000 kcal/kg
Suitable Extinguishing Agents / Equipment	Water haze, Foam, Carbon dioxide, Chemical powder
Unsuitable Extinguishing Agents / Equipment	No data available.
Special Exposure Hazards Arising from the Substance itself, Combustion Products, or Resulting Gases	In case of fire it can release: Water (H <sub>2</sub> O), Carbon Dioxide (CO <sub>2</sub> ), and when lacking oxygen (O <sub>2</sub> ), Carbon Monoxide (CO). The products of the burning are dangerous. The formation of hydrocarbons and aldehydes are possible in the initial stages of a fire (especially in between 752°F - 1292°F / 400°C and, 700°C).
Special Protective Equipment for Fire Fighters	Breathing apparatus.
Fire Fighting Procedures and Precautions	No data available.

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## SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures	No specific measures are necessary.
Environmental Precautions and Protective Procedures	No special measures required.
Methods for Containment and Cleanup	Sweep up for recycling and final disposal and keep in dry container. If material enters a sewer or waterway, notify responsible authorities of presence of non-toxic plastic product.

## SECTION 7: Handling and Storage

Precautions for Safe Handling	No data available.
Conditions for Safe Storage including Incompatibilities	It is recommend that you comply to all applicable laws and regulations governing proper method in the case of storage. Store the product far away from heat (the source of fire) & oxidizer.
Shelf Life	No data available.
Precautions against Fire and Explosion	No data available.
Safety Dealing Method	Deal with combustible solid.

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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	No data available.
Hand, Skin, and Body Protection	In the case of dealing with hot & molten product, specific items such as gloves, boots, aprons or full-body suits should be worn.
Eye Protection	No data available.
Respiratory Protection	For most conditions no respiratory protection would be needed. However, if process generates dust, fume or mist, set up ventilation to keep airborne contaminants below the exposure limit.
Special Requirements for PPE	No data available.
Appropriate Engineering Controls / Ventilation	Use ventilation to keep to airborne contaminants below the exposure limit.
Thermal Hazard Protection	No data available.

## SECTION 9: Physical and Chemical Properties

Appearance / Color	Non-Colored & Transparent Film.
State of Matter	No data available.
Upper / Lower Flammability Limits	No data available.
Upper / Lower Explosion Limits	No data available.
Odor	Sour smell.
Odor Threshold	No data available.
Vapor Density	Not applicable.
pH	No data available.
Relative Density	No data available.
Melting Point / Melting Range	140° - 338°F (60° - 170°C).
Freezing Point / Freezing Range	No data available.
Solubility(ies)	In Water: Insoluble
Initial Boiling Point / Boiling Range	Not applicable.
Flash Point	Not applicable.

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## SECTION 9: Physical and Chemical Properties

Evaporation Rate	No data available.
Density	0.90~0.93
Relative Density	No data available.
Flammability (solid, gas)	No data available.
Partition Coefficient (N-Octane / Water)	No data available.
Auto-Ignition Temperature	> 752°F (400°C)
Viscosity: Dynamic / Kinematic	Not applicable.
Decomposition Temperature	No data available.
Danger of Explosion	No data available.
Vapor Pressure	No data available.
Specific Gravity	No data available.
Spontaneous Combustion	No data available.
Solubility / Miscibility with water	No data available.
Solvent Content	No data available.
Oxidization	No data available.
Distribution Coefficient	No data available.
Molecular Weight	> tens of thousands.

## 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	The product is stable at normal handling and storage conditions. Decomposes over 572°F (300°C).
Incompatible Materials	Strong oxidation agent.
Hazardous Decomposition Products	No hazardous decomposition products known at room temperature.
Hazardous Polymerization	This material is not known to have any hazardous polymerization characteristics.

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## 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 effect 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 according to the information provided to our supplier. Reference has been taken from the toxicological data of a similar product.

## SECTION 12: Ecological Information

Ecological & Aquatic Toxicity	No data available.
Persistence and Degradability	No data available.
Bioaccumulative Potential	No data available.
Mobility in Soil / Agronomical Movement	No data available.
Other Hazardous Effects	No data available.
Additional Ecological Information	No data available.

## SECTION 13: Disposal Considerations

Disposal Method and Precautions	Sweep up spilled product and place in suitable container for recycle or disposal. Dispose of recovered material according to current regulation.
Recommended Cleansing Agents	No data available.
Contaminated Packaging	No data available.
General Comment	It is recommend that all waste be analyzed for compliance to applicable laws and regulations governing proper waste disposal method and reporting. Dispose according to Local, State, and Federal Regulations.

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

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## SECTION 14: Transport Information

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

## SECTION 15: Regulatory Information

NFPA Grade	<b>Health: 1 Fire: 1 Reactivity: 0</b>
OSHA, WHMIS, EPA Classification	Non-Hazardous
SARA Regulation Section 313(40 CFR part 372) & 29 CFR 1910.1200	This product is not considered hazardous.
FDA Regulation	This Product does not contain ingredients which are hazardous according to FDA Regulation 21 CFR 177.1520 can 49 DFR 172.101.

## SECTION 16: Other Information

Last Revision	May 2020
Training Instructions	None Known.
Data Sources	Data provided is from Manufacturer's SDS Sheets.
Disclaimer	The information above is believed to be accurate and represents the best information currently available to our supplier. However, our supplier makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and they assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. All materials may present unknown hazards and should be used with caution. In no event shall the be held liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if we have been advised of the possibility of such damages. Statements are made with latest of our supplier's knowledge. They shall be describe this product with regard to safety requirements, thus do not mean a guarantee for certain characteristics.

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The information furnished herein is believed to be factual. No hazardous substances are used in the manufacturing of this product on this material safety data sheet with the exceptions indicated. Though no specific analysis is done for the products or the raw material used in its manufacturing for hazardous substances stated in various states list. The information is taken from works and qualified experts, however nothing contained in the information is to be taken as warranty or representation for which Nobelus®, bears legal responsibility.