MATERIAL SAFETY DATA SHEET

SK2VF180-1

Vacuum film

► SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Name of product:	SK2VF180-1
Article:	Vacuum Film
Company name:	VIK-Composite GmbH
Street/POB No.:	Forststrasse, 31
State/city/postal code:	73529 Strassdorf (Schwäbisch Gmünd) Germany
Telephone:	+49 7171 8742923
Telefax:	+49 7171 8742924
E-mail:	sales@vik-composite.com
Description:	Nylon vacuum film.

► SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:
This product is a tinted plastic film. It is not hazardous according to article 31 and annex II of the REACH regulation. There is no labelling obligation for this product.

Information pertaining to particular dangers for man and environment:
The molten product may cause severe skin burns. Spilled material may present a slipping hazard. Possible production of electrostatic charges when used. Irritating and or toxic vapours may be released in the event of thermal decomposition.

Classification system
This product is, according to EEC directives 1999/45, 67/548,76/769 and following amendments, not classified as hazardous.

► SECTION 3: INGREDIENTS

Substances:

CAS-Number	EC-Number	Chemical name	Content	Symbol	R-phrases
105-60-2	203-313-2	ε-caprolactam	< 3,0%	Xn	20/22-36/37/38

Product class: Film manufactured from nylon resins.

► SECTION 4: FIRST AID MEASURES

Inhalation: This material is not likely to be hazardous by inhalation.
Skin contact: This material is not likely to be hazardous by skin contact.
Eye contact: Not likely to be an eye hazard in present form.
Ingestion: Not likely to be ingested in present form.

- **Further information:** At room temperature the product is neither an irritant nor gives off hazardous vapours. The measures listed below apply to critical situations (Fire, incorrect process conditions).
- **After 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 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 eye contact:** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing:** No specific measures have to be taken if the product is swallowed. Get medical advice if necessary.

► SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing agents:
Water haze
Foam
Carbon dioxide
Chemical powder

Extinguishing media which must not be used for safety reason: High power water jet.

5.2 Special hazards arising from the substance or mixture:
Hazardous combustion products - In case of fire it can release:
water (H2O), carbon dioxide (CO2), and when lacking oxygen (O2), carbon monoxide (CO), hydrocarbons, aldehydes such as acrolein and formaldehyde, and organic acids. The products of the burning are dangerous. The formation of hydrocarbons and aldehydes is possible in the initial stages of a fire (especially in between 400°C and 700°C).

5.3 Advice for fire-fighters: Wear an approved positive pressure, self-contained breathing apparatus and full protective clothing.

► SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: No special requirements.
6.2 Environmental precautions: Do not allow to enter ground water, sewage or drains.
6.3 Methods and material for containment and cleaning up: Collect and store into containers for disposal.

► SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling: Good industrial practice for handling of chemical products should be followed. Provide adequate ventilation and local exhaust as needed.

7.2 Conditions for safe storage, including any incompatibilities: Store in a cool, dry area, away from direct sunlight at 20-25°c and 50-55% relative humidity. Keep in original packaging to avoid contamination.

► SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS No.	EC No.	Chemical name	Type	Value
105-60-2	203-312-3	ε-caprolactam	WEL-TWA	1 mg/m³ (dust only)
			WEL-STEL	3 mg/m³ (dust only)
			WEL-TWA	10 mg/m³ (dust and vapour)
			WEL-STEL	20 mg/m³ (dust and vapour)
			WEL (Europe) 8-hour TWA	10 mg/m³
			WEL (Europe) STEL	10 mg/m³

8.2 Exposure controls: Overall room ventilation and/or local exhaust at points of fume generation in the work area.

8.3 Occupational exposure controls:
Respitory protection: None under normal usage.
Hand protection: Protective gloves according to EN 407 are required when handling hot material.
Eye protection: Use tightly sealed safety glasses according to EN 166.
Hygiene measures: Wash hands before handling food.

► SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

a) Appearance:	Thin colored film
b) Odour:	None
c) Odour threshold:	No odour
d) Ph:	Not applicable, solid film
e) Melting point:	>205°c
f) Initial boiling point and boiling range:	Not applicable, solid film
g) Flash point:	Not applicable, solid film
h) Evaporation rate:	Not applicable, solid film
i) Flamability (solid, gas):	Not determined
j) Upper/lower flammability or explosive limits:	Not determined
k) Vapour pressure:	Negligible at room temperature
l) Vapour density (air=1):	Not determined
m) Relative density:	1.12-1.14 g/m³ (at 20°C)
n) Solubility (ies):	Not determined. Non soluble in water
o) Partition coefficient: n-octanol/water :	Not applicable
p) Auto-ignition temperature:	>400°C
q) Decomposition temperature:	>300°C
r) Viscosity:	Not applicable, solid film
s) Explosive properties:	Not applicable
t) Oxidizing properties:	Not applicable

► SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:	No known hazardous reactions
10.2 Chemical stability:	No known hazardous reactions
10.3 Possibility of hazardous reactions:	No known hazardous reactions
10.4 Conditions to avoid:	Heating above 300°C
10.5 Incompatible materials:	Strong acids and oxidizing agents
10.6 Hazardous decomposition products:	In case of thermal decomposition during overheating or combustion, toxic fumes may be evolved: carbon monoxide, carbon dioxide nitrogen oxides, small amounts of hydrogen cyanide, ε-caprolactam and other combustion by-products (hydrocarbons).

► SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects: In our experience and to the best of our knowledge, the product is not harmful to health provided that it is handled and used in accordance with the given recommendations.

► SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity
Ecotoxicity effects: Water hazard class: 1 = mild water pollutant
Persistence and degradability: Product is not biodegradable. The insoluble part can be disposed of mechanically in suitable waste water cleaning facilities.
Additional ecologic information: Do not allow to enter ground water, sewage or drains.

► SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:
13.1.1 Product / Packaging disposal: The film is recyclable and this is preferred to landfill or incineration. Disposal of the product must be done in compliance with local regulations.
Waste codes / waste designations according to LoW:
070213 Plastic waste
150101 Paper and cardboard packaging
150102 Plastic packaging
13.1.2 Waste treatment-relevant information: There are no Physical/chemical properties that may affect waste treatment options.
13.1.3 Sewage disposal-relevant information: Waste should not be disposed of by release to sewers.
13.1.4 Other disposal recommendations: None

► SECTION 14: TRANSPORT INFORMATION

Not classified as a hazardous material with respect to transportation regulations (ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport).

► SECTION 15: REGULATORY INFORMATION

This product was classified in compliance with the EC directive 1999/45/CE and its adaptations. The product as shipped is not subject to labelling according to EC directives. Observe the normal safety regulations when handling chemicals.

National regulations:
- D.Lgs. 52/97, D.M. (Ministry of health) 14/6/2002 e 7/9/2002, D.E. 1999/45/CE, 2001/60/CE e Related legislation on “Classification, packaging and labeling of dangerous substances and preparations”
- D.P.R. 547/55 “Regulations for the prevention of accidents at work”
- D.P.R. 303/56 " General rules for the hygienic "(health control)
- D.P.R. 336/94 “Table of professional diseases in the industry”
- D.Lgs. 81/08 “Unique test of health and safety at work”

► SECTION 16: OTHER INFORMATION

The information supplied has been based upon the current level of information available, for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty for specific product characteristics. VIK-Composite GmbH takes no responsibility for inappropriate use, processing and handling by purchasers and users of the product.
This data is offered for your consideration, investigation and verification.