

VACFILM 450V

Vacuum bagging film



Tel: +44 (0) 1274 550500
Fax: +44 (0) 1274 550501
Email: sales@aerovac.com
Website: www.aerovac.com

Health and Safety at Work - Control of Substances Hazardous to Health
Material Safety Data Sheet

MSDS No: VACFILM450V

1) Chemical Product and Company Identification

PRODUCT NAME: VACFILM450V
OTHER/GENERIC NAMES: None
FORM:
PRODUCT USE: Bagging Film

MANUFACTURER/DISTRIBUTOR: Aerovac Systems Ltd
500 Bradford Road
Sandbeds
Keighley
West Yorkshire
BD20 5NG
England

For more information call +44 (0) 1274 550500 (Mon - Thurs 8:30-17:00, Fri 8:30-13:45).

2) Composition/Information on Ingredients

Hazardous components: None. (The product may contain small amounts/traces of hazardous substances. These substances are bound to the polymer, therefore there is no danger in the present form).

COMPOSITION

CAS Number

Polypropylene 9010-79-1 1- propene polymer with ethene

Polyethylene 9002-88-4

Polyamide 24993-04-2

Additives

Chemical characterization: Polyolefins

Description: Multilayer Film made of polyolefins (like ISO 472)

3) Hazards Identification

Indication of danger: The product is a polymer, according to EEC directives 1999/45, 67/548,76/769 and following amendments, not classified as hazardous.

| | | | |
|---|---|---|--|
| Aerovac Systems Ltd www.aerovac.com | Aerovac Systems Italy S.r.l www.aerovac.it | Aerovac Systèmes France www.aerovac.fr | Richmond Aircraft Products www.richmondaircraft.com |
|---|---|---|--|

Aerovac Systems Ltd.

All statements, technical information and recommendations contained in this publication are based on tests believed to be reliable, but their accuracy and/or completeness are not guaranteed. The user shall determine the suitability for this particular purpose and shall assume all risk and liability in connection herewith. All values stated are nominal. For further details about tolerances please contact Aerovac Systems quality department.

Revised: May 2010

VACFILM 450V



Tel: +44 (0) 1274 550500
Fax: +44 (0) 1274 550501
Email: sales@aerovac.com
Website: www.aerovac.com

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.

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.

5) Flammable Properties

Suitable extinguishing agents: CO₂, Extinguishing Powder, Water spray, Foam. Fight larger fires with water spray or alcohol resistant foam.

Extinguishing media which must not be used for safety reason: Water with full jet

Special hazards caused by the material, its products of combustion or resulting gases: In case of fire it can release : butene, ethene, carbon dioxide (CO₂), and when lacking oxygen (O₂), carbon monoxide (CO). 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).

Special protective equipment for firefighters: Wear fully protective suit. Wear self-contained respiratory protective device.

Additional information: Collected contaminated fire fighting water separately.

| | | | |
|--|---|---|--|
| Aerovac Systems Ltd www.aerovac.com | Aerovac Systems Italy S.r.l www.aerovac.it | Aerovac Systèmes France www.aerovac.fr | Richmond Aircraft Products www.richmondaircraft.com |
|--|---|---|--|

Aerovac Systems Ltd.

All statements, technical information and recommendations contained in this publication are based on tests believed to be reliable, but their accuracy and/or completeness are not guaranteed. The user shall determine the suitability for this particular purpose and shall assume all risk and liability in connection herewith. All values stated are nominal. For further details about tolerances please contact Aerovac Systems quality department.

Revised: May 2010

VACFILM 450V



Tel: +44 (0) 1274 550500
Fax: +44 (0) 1274 550501
Email: sales@aerovac.com
Website: www.aerovac.com

6) Accidental Release Measures

Person-related safety precautions: Particular danger of slipping on spilled product.

Measures for environmental protection: No special measures required.

Contact authorities in case of water contamination.

Measures for cleaning/collecting:

Small spills: Put into a labelled container and provide safe disposal.

Large spills: Act as during a limited release.

Recycle product or dispose properly.

Additional information:

Collect spilled material: It could cause falls (Danger of slipping).

7) Handling and Storage

No special requirements necessary, if handled at room temperature. Don't smoke, eat or drink at the workplace.

When bringing the material to processing temperatures gases might develop, forming: butene, ethene hydrocarbon substances with low molecular weight and their oxidation products carbon monoxide traces of aldehydes (acrolein TLV-TWA 0,1 ppm)

Ensure good ventilation/exhaustion at the workplace

For all kinds of polymers, if dust is created during transport or handling, safety measures against danger of explosion have to be taken.

Information about protection against explosions and fires: No special measures required.

Requirements to be met by storerooms and containers: Particular danger of slipping on spilled product.

Pay attention during the handling of material, especially while using the fork-lift. Store cool and dry.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Protect from heat and direct sunlight. Store container in a well ventilated position. Link to ground machineries. Take precautionary measures against static electricity. Store under dry conditions. Avoid inhaling of heat sealing vapours. Fumes generated by thermal decomposition may be hazardous.

| | | | |
|---|---|---|--|
| Aerovac Systems Ltd www.aerovac.com | Aerovac Systems Italy S.r.l www.aerovac.it | Aerovac Systèmes France www.aerovac.fr | Richmond Aircraft Products www.richmondaircraft.com |
|---|---|---|--|

Aerovac Systems Ltd.

All statements, technical information and recommendations contained in this publication are based on tests believed to be reliable, but their accuracy and/or completeness are not guaranteed. The user shall determine the suitability for this particular purpose and shall assume all risk and liability in connection herewith. All values stated are nominal. For further details about tolerances please contact Aerovac Systems quality department.

Revised: May 2010

VACFILM 450V



Tel: +44 (0) 1274 550500
Fax: +44 (0) 1274 550501
Email: sales@aerovac.com
Website: www.aerovac.com

8) Exposure Controls/Personal Protection

Components with limit values that require monitoring at the workplace: None.

Occupational exposure controls:

Personal protective equipment:

Breathing equipment: If appropriate ventilation is not available use face mask when handling the molten product.

Protection of hands: Wear suitable gloves to protect against prolonged contact. Heat resistant gloves when handling the molten product. Material of gloves - chemical resistant EN374

Eye protection: Not required in standard use.

Body protection: Normal overalls.

General protective and hygienic measures: Do not eat or drink while working. No smoking.

Environmental exposure controls: Not likely to be hazardous for the environment in recommended use.

Correct disposal (see point 6).

9) Physical and Chemical Properties

General Information: Multilayer film

Physical state: Solid

Colour: Violet

Odour: Characteristic

Melting point/Melting range: 130 - 150°C

Boiling point/Boiling range: Not applicable

Ignition temperature: > 340°C

Decomposition temperature: > 300°C

Danger of explosion: Product is not explosive.

Density 900 – 980 Kg/m³

Solubility in / Miscibility with Water: Insoluble

10) Stability and Reactivity

Thermal decomposition / conditions to be avoided:

The product is stable at normal handling- and storage conditions.

Decomposes over 300°C.

Dangerous products of decomposition: Flammable gases and vapours, carbon monoxide, hydrocarbons, aldehydes.

| | | | |
|---|---|---|--|
| Aerovac Systems Ltd www.aerovac.com | Aerovac Systems Italy S.r.l www.aerovac.it | Aerovac Systèmes France www.aerovac.fr | Richmond Aircraft Products www.richmondaircraft.com |
|---|---|---|--|

Aerovac Systems Ltd.

All statements, technical information and recommendations contained in this publication are based on tests believed to be reliable, but their accuracy and/or completeness are not guaranteed. The user shall determine the suitability for this particular purpose and shall assume all risk and liability in connection herewith. All values stated are nominal. For further details about tolerances please contact Aerovac Systems quality department.

Revised: May 2010

VACFILM 450V



Tel: +44 (0) 1274 550500
Fax: +44 (0) 1274 550501
Email: sales@aerovac.com
Website: www.aerovac.com

11) Toxicological Information

Acute toxicity: No information available
Primary irritant effect:
on the skin: No irritant effect.
on the eye: No irritant effect.
Sensitization: No sensitizing effect known.
Inhalation: Health injuries are not known or expected under normal use
Ingestion: Health injuries are not known or expected under normal use
Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12) Ecological Information

Ecotoxicity effects: The product is not toxic.
Aquatic toxicity: No information available
Information about elimination (persistence and degradability): The product is not biodegradable.
Behaviour in environmental systems:
Mobility and bioaccumulation potential: Floats on water.
Other information/Additional ecologic information
At present there are no ecotoxicological assessments; small particles can have physical effects on water and soil organisms.

13) Disposal Considerations

Waste from residues/unused products: Dispose in accordance with local regulation
Recommendation
Reuse or recycle if possible.
Disposal through controlled incineration or authorised waste dump.
European waste catalogue 070213 = Plastic waste

14) Transport Information

UN/Id NO Not regulated
IMDG Not regulated
ADR/RID Not regulated
ICAO/IATA Not regulated
Transport/Additional information: According to national and international guidelines, which regulate the road-, rail-, air- and sea transport, this product is classified as not dangerous.

| | | | |
|---|---|---|--|
| Aerovac Systems Ltd www.aerovac.com | Aerovac Systems Italy S.r.l www.aerovac.it | Aerovac Systèmes France www.aerovac.fr | Richmond Aircraft Products www.richmondaircraft.com |
|---|---|---|--|

Aerovac Systems Ltd.

All statements, technical information and recommendations contained in this publication are based on tests believed to be reliable, but their accuracy and/or completeness are not guaranteed. The user shall determine the suitability for this particular purpose and shall assume all risk and liability in connection herewith. All values stated are nominal. For further details about tolerances please contact Aerovac Systems quality department.

Revised: May 2010

VACFILM 450V



Tel: +44 (0) 1274 550500
Fax: +44 (0) 1274 550501
Email: sales@aerovac.com
Website: www.aerovac.com

15) Regulatory Information

Designation according to EC guidelines: The material is not subject to classification according to EC lists and other sources of literature known to us.

Observe the normal safety regulations when handling chemicals.

16) Other Information

CURRENT ISSUE DATE: May 2010

PREVIOUS ISSUE DATE: April 2010

CHANGES TO MSDS FROM PREVIOUS ISSUE DATE ARE: Format change

This material safety data sheet was prepared in compliance with Council Directive 91/155/EEC, 67/548 and 88/379/EEC as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

The above information describes exclusively the safety requirements of the product(s) and is based on our present day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet. The information contained in this sheet does not constitute a hazard assessment and should not be used in place of the user's own assessment of workplace risks as required by other health and safety legislation.

| | | | |
|--|---|---|--|
| Aerovac Systems Ltd www.aerovac.com | Aerovac Systems Italy S.r.l www.aerovac.it | Aerovac Systèmes France www.aerovac.fr | Richmond Aircraft Products www.richmondaircraft.com |
|--|---|---|--|

Aerovac Systems Ltd.

All statements, technical information and recommendations contained in this publication are based on tests believed to be reliable, but their accuracy and/or completeness are not guaranteed. The user shall determine the suitability for this particular purpose and shall assume all risk and liability in connection herewith. All values stated are nominal. For further details about tolerances please contact Aerovac Systems quality department.

Revised: May 2010