

VMS2

Resin barrier vacuum line



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Fax: +44 (0) 1274 550501
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Website: www.aerovac.com

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

MSDS No: VMS2

1) Chemical Product and Company Identification

PRODUCT NAME: VMS2
OTHER/GENERIC NAMES: VMS2
FORM: Release film
PRODUCT USE: Resin barrier vacuum line

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.

| COMPOSITION | CAS Number |
|-------------------------------|--------------|
| Propene, polymer with ethene | 9010-79-1 1- |
| Polyethylene | 9002-88-4 |
| Ethylene – Octene-1 Copolymer | 026221-73-8 |

Additives

Chemical characterization: Polyolefins

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

3) Hazards Identification

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

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

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

Additional information: Collected contaminated fire fighting water separately.

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).

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7) Handling and Storage

Information for safe handling:

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:

-Hydrocarbon substances with low molecular weight and their oxidation products

-Carbon monoxide

-Small amounts 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.

Storage :

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.

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8) Exposure Controls/Personal Protection

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

Occupational exposure controls: None.

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: polypropylene multilayer film

Physical state: solid

Color: transparent

Odor: characteristic

Melting point: 122 - 130°C

Boiling point: not applicable

Ignition temperature: >350°C

Decomposition temperature: >300°C

Danger of explosion: product is not explosive

Density: 900 – 1000 kg/m³

Solubility in water: insoluble

10) Stability and Reactivity

Thermal decomposition / The product is stable at normal handling and storage conditions.

Conditions to be avoided: Decomposes over 300°C.

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

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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: Floats on water.
Mobility and bioaccumulation potential:
Other information/ At present there are no ecotoxicological assessments; small particles
Additional ecologic information 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

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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.

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

This material safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfil his obligations regarding the use of hazardous products. This information is not exhaustive. This does not exonerate the user from ensuring that legal obligations, other than those mentioned, relating to the use and storage of the product, do not exist. This is solely his responsibility.

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