

# Safety and environmental information



Material Safety Data Sheet according to regulation (EC) # 1907/2006

## 1. Identity of Substance or Compound and of Company

1. 1. Identity of substance or compound

No substance or compound as defined by REACH.  
It is an unplasticized **hard PVC polymer film product**.

1.2. Identity and address of the company

Company: **Bilcare Research GmbH**  
Administration: Radebeulstr. 1, D-79219 Staufen  
Email address: [info.solutions@bilcare.com](mailto:info.solutions@bilcare.com)  
Phone number: +49 7633 811 395  
Fax number: +49 7633 811 298

## 2. Hazards Identification

None

Hard – PVC – polymer film is safe and harmless.

The films are considered safe according to regulation (EC) # 1272/2008 (GHS) and directives 1999/45/EC and 67/548/EEC.

## 3. Composition / Ingredients

Voluntary information:

Polyvinyl chloride and/or copolymer vinyl chloride-vinyl acetate.

Opaque and transparent colored products contain colorants, pigments and/or mineral fillers.

## 4. First Aid Measures

Not necessary.

After skin contact with molten skin seek medical advice.

## 5. Fire Fighting Measures

5.1. Suitable extinguishing media

Extinguishing powder, water spray, CO<sup>2</sup>, foam extinguishers.

5.2. Extinguishing media not suitable for safety reasons

No data available

5.3. Special hazards from the substance or the product, its combustion products or resulting gases

No data available

5.4. Special protective equipment for fire-fighters

In case of fire, toxic gases and fumes may develop, therefore fire-fighters have to wear suitable breathing apparatus.

Hazardous decomposition products: are mainly caused by fumes – smoke due to incomplete combustion. Potential formation of carbon monoxide CO, carbon dioxide CO<sup>2</sup>, hydrochloric acid, carbonized combustion residues.

# Safety and environmental information



## 5.5. Additional information

### Flammability:

PVC has a low flammability

PVC flash ignition (FIT) ASTM D1929: 390° C

PVC spontaneous ignition (SIT) ASTM D 1929: 450° C

Do not discharge extinguishing water into the public sewage system.

## 6. Accidental Release Measures

### Not necessary:

There are traces of vinyl chloride monomer (VCM) and vinyl acetate (VAM, for copolymer): both substances are ARC classified. VCM is a gas that may penetrate into the work environment and traces of it may be detected.

## 7. Handling and Storage

### 7.1. Handling

#### Prevention of dust formation:

Take suitable precautionary measures to avoid the risk of dust explosion during processing or granulation.

If the finished product creates dust, wear suitable protective masks.

#### Environment:

Ensure adequate ventilation during thermal treatment (hot processing). If necessary use suitable exhaust system.

#### Prevention of electrostatic charging:

Electrostatic charging may occur during high speed film processing (reels), and/or in an environment with low ambient humidity.

It is therefore recommendable to adequately protect staff when handling potentially electrostatically charged films.

### 7.2. Safe storage

We recommend storage in the original packaging at temperatures between 18 and 24° C and a relative humidity of 40 - 60%.

Avoid exposure to moisture and direct sunlight.

Partially used pallets have to be re-wrapped in order to protect the remainder of the product against dust and sunlight.

## 8. Exposure Limitation and Control / Personal Protective Equipment

Not necessary

## 9. Physical and Chemical Properties

No data available

## 10. Stability and Reactivity

### 10.1. Conditions to avoid

Decomposition temperature of PVC: > 120° C long term exposure; > 250° C short term exposure.

Thermal decomposition is very slow in the lower temperature bracket but accelerates at higher temperatures.

No thermal decomposition when stored and handled correctly.

### 10.2. Substances to avoid

Exceptions from acid resistance: sulphuric acid (> 90%) and nitric acid (> 50%)

Strong acids will affect the polymer at elevated temperatures.

# Safety and environmental information



Resistance to basic aqueous solutions up to 60° C. Bromine and fluorine react with PVC at room temperature.

## 11. Toxicological Information

No data available

## 12. Ecological Information

No data available

## 13. Disposal Considerations

Recycling is recommended.  
If reuse or recycling of the product is impossible it has to be disposed of according to the statutory local laws and regulations.

## 14. Transport Information

No special transport requirements (ONU number, ADR/RID/RMP, IMO, IATA) apply.

## 15. Regulatory Information

No hazardous substance or preparation according to regulation (EC) # 1272/2008 (GHS) and EC directives 1999/45/EEC and 67/548/EEC.  
Pursuant to the EC directives and the respective national statutory regulations this product is not subject to mandatory labeling.

## 16. Other Information

None

Bilcare Research prepared this document based on current knowledge. No warranties are made. It only serves as a technical guideline for use. Bilcare Research does not guarantee that every possible environmental and safety measure has been verified. It cannot be excluded that under certain operating conditions action has to be taken. Use of this information as well as the conditions of use are not within the control of Bilcare Research. The final user shall be responsible for the safe conditions of final use.