


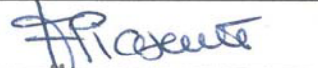



Taghleef Industries SpA

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Product Specifications:
HS Taghleef Industries S.p.A. Products

Health and Safety Guidelines for the Use of
NATIVIA® Films

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This document is conform to the requirements of EC Regulation 1907/2006.



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"Health and Safety Guidelines for the Use of NATIVIA® Films"

SECTION 1: Identification of the product and the company

1.1 Product identifier:

Bioriented polylactic acid film.

1.2 Typical applications:

Food packaging, Adhesive tape and Labels.

1.3 Details of the supplier of the safety data sheet:

TAGHLEEF INDUSTRIES S.p.A.
Via Enrico Fermi, 46
33058 S. Giorgio di Nogaro (UD) - Italy
Telephone : +39 0431 627 111
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Web site : www.ti-films.com

1.4 Emergency Phone Call:

(From 08.30 am to 19.00 pm) +39 0431 627 111

SECTION 2: Hazards identification

2.1 Classification of the product:

According to Regulation 1272/2008/EC and Regulation 1907/2006/EC and subsequent amendments this product is not classified as dangerous.

2.2 Label elements:

According to Regulation 1272/2008/EC and Regulation 1907/2006/EC and subsequent amendments for this product is not required a labelling.

2.3 Other hazards:

- The molten product adheres to the skin and cause burns.
- Risk of slipping due to the presence of material scattered on the floor.
- Avoid the accumulation of polylactic acid powder.
If it is not possible, avoid the accumulation of electrostatic charges or any other source of ignition. In these cases it is advisable to consult an expert.



SECTION 3: Composition/information on ingredients

This product does not contain any substances to be mentioned according to the criteria of section 3 of Regulation 1907/2006/EC annex II.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aid measures after **inhalation**:

Polylactic acid powder is considered to be chemically inert. If inhaled, move affected person to fresh air and seek medical advice.

First-aid measures after **skin contact**:

The molten product adheres to the skin and causes burns: cool immediately the affected part with clean cold water and seek medical attention, do not remove in any case the solidified polymer from the skin.

First-aid measures after **eye contact**:

Flakes or powder of polylactic acid may cause irritation to the eyes. In case of contact with eyes, rinse thoroughly with water and seek medical attention.

First-aid measures after **ingestion**:

Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed:

Symptoms/injuries after inhalation:

Inhalation of dust may cause irritation of respiratory system.

Symptoms/injuries after skin contact:

The melted product can cause severe burns.

Symptoms/injuries after eye contact:

Flakes or powder of polylactic acid may cause irritation to the eyes.

4.3. Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.



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SECTION 5: Fire fighting measures

5.1. Extinguishing media:

All fire extinguishers, taking into account the environment in which the fire could develop. For example, the presence of other materials such as flammable solvents and electrical equipment may impose restrictions.

It is advisable to ask for specific guidance to the fire department.

5.2. Special hazards arising from the substance or mixture:

Hazardous fumes can be given off, which should not be inhaled, containing mostly containing mostly water (H₂O) and carbon dioxide (CO₂) in the absence of oxygen, carbon monoxide (CO) and aldehydes.

5.3. Advice for fire fighters

The fire-fighters must wear protective clothing and breathing apparatus.

SECTION 6: Accidental release measures

Not applicable.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Be sure not to leave on the floor pieces of polylactic acid film that can make it slippery.

Safety shoes and appropriate personal protective equipment must be always worn by the personnel involved in handling and moving the film reels.

Polylactic acid film reels should be moved with appropriate equipment only.

Converting and Packaging Machinery:

In some polylactic acid film a small amount of antistatic additives is used in order to avoid the accumulation of electrostatic charges.

It is still recommended to equip the machines with appropriate anti-static systems to eliminate and neutralize the electrostatic charges.

Heat-Sealing:

Do not touch molten polymers or heat-sealing until cooled.



7.2. Conditions for safe storage, including any incompatibilities

No special conditions are required for the storage of polylactic acid films but it is recommended to keep in a cool and dry place, below 30 °C.

The pallets must be stored and handled carefully in accordance with specific rules and/or safety standards.

It is recommended to act in accordance with the general rules relating to fire prevention.

Film Packaging:

It is recommended to wear appropriate eyes and hands protection systems during package removal.

SECTION 8: Exposure controls/personal protection

Polylactic acid films do not present a specific risk to health or safety.

The powder polylactic acid is considered to be chemically inert and to present a low toxicity, normally it is not dangerous to health, although high concentration may cause irritation of the respiratory tract.

In this case, concentrations in air must be kept under the levels recommended for inert powders and it is recommended to use appropriate personal protective equipment to prevent inhalation.

SECTION 9: Physical and chemical properties

Physical State	:	Solid
Density	:	1.24 g/cm ³
Melting Point	:	120-170°C
Auto Ignition Temperature	:	Not applicable.

SECTION 10: Stability and reactivity

Avoid contact with strong oxidizing agents.

SECTION 11: Toxicological information

No particular indication.



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SECTION 12: Ecological information

Polylactic acid films are non - toxic solids, water insoluble, ground neutral and their use do not cause environmental hazards.

SECTION 13: Disposal considerations

Polylactic acid films can be disposed in approved landfills or by incineration.

The complete combustion of polylactic acid leads mainly to the formation of carbon dioxide and water.

Combustion for energy recovery provides on average 19.5 MJ/Kg.

Taghleef Industries S.p.A. polylactic acid films are compostable according to UNI EN 13432.

Compostable certificate is available upon request.

SECTION 14: Transport information

No particular indication.

For films which will come into contact with food we advise the use of covered transport, in order to guarantee the hygiene of the product.

SECTION 15: Regulatory information

According to Regulation 1272/2008/EC and Regulation 1907/2006/EC and subsequent amendments, this product is not classified as dangerous.

SECTION 16: Other information

The information contained in this document is based on our current knowledge and will aim to describe the product only in relation to environmental, health and safety.

This document does not excuse in any case the user from knowing and applying the laws and regulations governing its activities.

The user is required to verify that the material is appropriate for the specific application.

The information contained in this document is subject to revision without prior notice to Customer.