

According to Annex II to REACH - Regulation 2020/878

Revision No 1

Dated 22/11/2024

Printed On 22/11/2024

Page No. 1/12 Form No. 24112205

# METALLIZED BIAXIALLY ORIENTED POLYPROPYLENE BOPP

# SECTION 1. Identification of the substance/mixture and of the company/undertaking

## 1.1 Product identifier

Product name METALLIZED BIAXIALLY ORIENTED POLYPROPYLENE

Product code 05

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use Industrial use. Professional use. Uses advised against Not for consumer use

#### 1.3. Details of the supplier of the safety data sheet

Name POLÍNAS PLASTÍK SAN. ve TÍC. A.Ş.

Address Manisa OSB 1. Kısım, Keçiliköy Mah. 50. Yıl Cad. No: 6 Yunusemre, Manisa, TÜRKİYE

 Phone no
 +90 236 226 22 00

 Fax no
 +90 236 233 25 25

 E-mail
 info@polinas.com.tr

#### 1.4. Emergency telephone number

For urgent inquiries refer to Phone: +90 236 226 22 00

## **SECTION 2. Hazards identification**

#### 2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).

# 2.2. Label elements

Free of labeling as it does not present a hazard to human health by inhalation, ingestion or contact with skin or to the aquatic environment in the form in which they are placed on the market, in accordance with Regulation (EC) 1272/2008 - Annex I - 1.3.4.

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage more than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration >= 0.1%.

# **SECTION 3. Composition/information on ingredients**

#### 3.1. Substances

Information not relevant

#### 3.2. Mixtures

Identification Conc. % Classification (EC) 1272/2008 (CLP)

**POLYPROPYLENE** 

CAS 9003-07-0 >80 Not classified

EC 618-352-4 INDEX -

POLYPROPYLENE, TERPOLYMER

CAS 25895-47-0 0-12 Not classified



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EC 607-824-5

INDEX -

**CALCIUM CARBONATE \*** 

CAS 471-34-1 0-10 Not classified

EC 207-439-9

INDEX -

**TITANIUM DIOXIDE \*** 

CAS 13463-67-7 0-15 Not classified. Classification note according to Annex VI to the CLP Regulation: 10, V, W

EC 236-675-5

INDEX - **ALUMINIUM** 

CAS 7420 00 F

CAS 7429-90-5 0-0.02 Not classified

EC 231-072-3 INDEX -

# **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

# 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

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

Treat symptomatically

# **SECTION 5. Firefighting measures**

# 5.1. Extinguishing media

#### SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

# 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

<sup>\*</sup> Only used in white films

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#### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

## SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## **SECTION 6. Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

If there are no contraindications, spray powder with water to prevent the formation of dust.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

# **SECTION 7. Handling and storage**

## 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this safety data sheet. It is recommended to wear eye protection and protective gloves at all times during cutting and striping. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in original packaging under normal conditions at temperatures between 10 - 30 °C, away from high temperatures and humidity. The material should be away from heat sources in the storage environment and static electricity should be prevented. Electrically ground the equipment. Keep containers away from any incompatible materials, see section 10 for details.

# 7.3. Specific end use(s)

Information not available

# **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Regulatory References:



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TUR GBR EU Türkiye United Kingdom OEL EU Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733 FH40/2005 Workplace exposure limits (Fourth Edition 2020)

EH40/2005 Workplace exposure limits (Fourth Edition 2020)
Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive

98/24/EC; Directive 91/322/EEC.

TLV-ACGIH ACGIH 202

<b>Threshold Limit Value</b>								
Туре	Country	Country TWA/8h		STEL/15min		Remarks / Observations		
		mg/m³	ppm	mg/m³	ppm			
OEL	EU	10					INHAL	
Predicted no-effect co	ncentration - PNEC	;						
Normal value of STP microorganisms			100	mg/l				
Health - Derived no-eff	ect level - DNEL / I	OMEL						
		Effects on consumers				Effects on workers		
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		6,1 mg/kg bw/d		6,1 mg/kg bw/d				
Inhalation	1,06 mg/m³					6,36 mg/m³		

Country	TWA	TWA/8h		15min	Remarks / Observations	
	mg/m³	ppm	mg/m³	ppm		
TUR	15					
GBR	10				INHAL	
GBR	4				RESP	
	10					
	TUR GBR GBR	mg/m³  TUR 15  GBR 10  GBR 4	mg/m³ ppm  TUR 15  GBR 10  GBR 4  10	mg/m³ ppm mg/m³  TUR 15  GBR 10  GBR 4  10	mg/m³         ppm         mg/m³         ppm           TUR         15         GBR         10           GBR         4         10	

Health - Derived no-effect level - DNEL / DMEL								
Effects on consumers				Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation		0,21 mg/m³			1,25 mg/m³			

#### Legend

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

## 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

#### HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374). Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

# SKIN PROTECTION

Wear professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### **EYE PROTECTION**

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

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None required, unless indicated otherwise in the chemical risk assessment. In case of dust production and if the threshold value is exceeded for the substance or one of the substances present in the product, wear a type FFP1 or higher-class face mask if otherwise required by the risk assessment (see standard EN 149).

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

#### **ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

# **SECTION 9. Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Toperties	Value	IIIIOIIIIalioii
Appearance	Solid	

Colour Transparent, white or metallic

Odour Odourless
Odour threshold Not available
Melting point / freezing point 160-165 °C
Initial boiling point Not available
Flammability Not available
Lower explosive limit Not available
Upper explosive limit Not available

Flash point 350 °C Method: ASTM D1929

Ignition temperature >380 °C Decomposition temperature Not available Not available рН Kinematic viscosity Not available Dynamic viscosity Not available Solubility Insoluble in water Partition coefficient: n-octanol/water Not available Vapour pressure Not available Density 550-1000 kg/m<sup>3</sup> Relative vapour density Not available Not available Particle characteristics

## 9.2. Other information

# 9.2.1. Information with regard to physical hazard classes

Information not available

# 9.2.2. Other safety characteristics

Explosive properties Not available
Oxidising properties Not available

# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

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There are no particular risks of reaction with other substances in normal conditions of use.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

# 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

Open flame, hot surfaces, heat, temperature, pressure, humidity.

#### 10.5. Incompatible materials

Strong oxidizing agents.

## 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

# **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

# **GENERAL INFORMATION**

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

# **ACUTE TOXICITY**

Does not meet the classification criteria for this hazard class

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture:

Not classified (no significant component) Not classified (no significant component)



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ATE (Dermal) of the mixture: Not classified (no significant component)

**CALCIUM CARBONATE** 

 $\begin{array}{lll} \mbox{LD50 (Oral):} & > 2000 \mbox{ mg/kg Rat} \\ \mbox{LD50 (Dermal):} & > 2000 \mbox{ mg/kg Rat} \\ \mbox{LC50 (Inhalation mists/powders):} & > 3 \mbox{ mg/l/4h Rat} \\ \end{array}$ 

TITANIUM DIOXIDE

LD50 (Oral): > 2000 mg/kg Rat LC50 (Inhalation mists/powders): > 5,09 mg/l/4h Rat

# SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

#### **SERIOUS EYE DAMAGE / IRRITATION**

Does not meet the classification criteria for this hazard class

## **RESPIRATORY OR SKIN SENSITISATION**

Information not available

Respiratory sensitization

Information not available

Skin sensitization

Information not available

## **GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class

# **CARCINOGENICITY**

Does not meet the classification criteria for this hazard class

# REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

# Adverse effects on sexual function and fertility

Information not available

# Adverse effects on development of the offspring

Information not available

## Effects on or via lactation

Information not available

# **STOT - SINGLE EXPOSURE**

Does not meet the classification criteria for this hazard class



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Target organs

Information not available

Route of exposure

Information not available

## **STOT - REPEATED EXPOSURE**

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

#### **ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class

## 11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

# **SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

# 12.1. Toxicity

CALCIUM CARBONATE

LC50 - for Fish > 100 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea > 100 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 14 mg/l/72h Desmodesmus subspicatus

TITANIUM DIOXIDE

LC50 - for Fish > 100 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea > 100 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 50 mg/l/72h Pseudokirchnerella subcapitata

# 12.2. Persistence and degradability

CALCIUM CARBONATE

Solubility in water 0,1 - 100 mg/l

TITANIUM DIOXIDE

Solubility in water < 0,001 mg/l

Degradability: information not available



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## 12.3. Bioaccumulative potential

Information not available

# 12.4. Mobility in soil

Information not available

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage more than 0,1%.

#### 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

#### 12.7. Other adverse effects

Information not available

# **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Solid residues may be suitable for disposal in an authorised landfill site.

#### CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

# **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number or ID number

Not applicable

#### 14.2. UN proper shipping name

Not applicable

# 14.3. Transport hazard class(es)

Not applicable

# 14.4. Packing group

Not applicable

## 14.5. Environmental hazards



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Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

# **SECTION 15. Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EU

None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

None

Contained substance

Point 75 TITANIUM DIOXIDE

Point 75 ALUMINIUM

Point 75 CALCIUM CARBONATE

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage more than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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Information not available

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

#### **SECTION 16. Other information**

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
  16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP) 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety

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- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### NOTE FOR USERS:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11. Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

#### **DISCLAIMER OF LIABILITY:**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.