

POLYCARBONATE (PC) MULTIWALL SHEETS

Section 1: Identification of the Substance/Mixture and Company/Distributor

1.1. Substance/Mixture Identity

Product Form: Mixture
Product Name: PC Multiwall Sheet
Product Code:

1.2. Identified Recommended Uses of the Substance of Mixture : Industrial Use

Recommended Uses:

Outdoor Use. In greenhouses, on the roofs of shopping malls, at the top of bus stops, It is used for closure in advertising industries. Barrel vaults and covered walkways, stadium roofing and glazing, acoustic barriers.

1.3. Safety Data Sheet Supplier's Information

TEKNORM PLASTİK AMB. İNŞ. CAM METAL SAN. TİC. LTD. ŞTİ.
Address: Mimar Sinan OSB, 17. Cad. No: 9 Melikgazi / KAYSERİ/TÜRKİYE
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Country	Establishment/ Company	Address	Emergency	Comment
Türkiye	Ulusal Zehir Merkezi (UZEM) Refik Saydam Hıfzıssıhha Merkezi Başkanlığı	Cemal Gürsel Cd. No: 18 Sıhhiye Çankaya 06590 Ankara	114	Information service on poisoning is provided to the public and health-care personnel through telephone number 114.

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Section 2: Hazard Identificatio

2.1. Classification of the Substance and Mixture

According to the "Regulation on Classification, Labeling, and Packaging of Substances and Mixtures" (SEA) published in the Official Gazette dated December 11, 2013, and numbered 28848 (repeated), the **substance/** mixture is not classified.

Harmful Physico-chemical Effects and Adverse Effects on Human Health and the Environment:
To the best of our knowledge, when this product is handled in accordance with proper occupational hygiene and safety principles, it does not pose any risk.

2.2. Label Elements

Classification in accordance with to the "Regulation on Classification, Labeling, and Packaging of Substances and Mixtures" (SEA) published in the Official Gazette dated December 11, 2013, and numbered 28848 (repeated)
Labeling is not required.

2.3. Other Hazards

Non-classified hazards

No additional information available.

Section 3: Composition/ Information on Ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

This mixture does not contain any substance that must be notified in accordance with the "Regulation on Safety Data Sheets for Hazardous Substances and Mixtures" published in the Official Gazette dated 13 December 2014 and numbered 29204.

Section 4: First Aid Measures

4.1. Description of First Aid Measures

First Aid Measures for Inhalation: Move the person to fresh air and ensure they can breathe comfortably.
First Aid Measures for Skin Contact: Wash with plenty of cold water.

4.2. Acute and Delayed Symptoms and Effects

No additional information available.

4.3. Medical Intervention and Special Treatment Requirements

Treat symptomatically.

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Section 5: Firefighting Measures

5.1. Extinguishers

Suitable extinguishing media: Water spray, dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).

Unsuitable extinguishing media: High-pressure water.

5.2. Special Hazards Arising from the Substance or Mixture

Reactivity in case of fire: Hazardous gases may be released at high temperatures.

Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Advice for Firefighters

Firefighting during a fire: Do not attempt to intervene without appropriate protective equipment.

Self-contained breathing apparatus. Full protective clothing.

Section 6: Precautions for Accidental Spills

6.1. Personal Precautions, Protective Equipment, and Emergency Procedures

General precautions: Eliminate possible sources of ignition. Unauthorized personnel should not have access. Use protective clothing. Prevent access to sewers, basements, and pits or any area where a spill could pose a risk.

If the product enters the sewerage or city water, inform the authorities. Be cautious when walking on spilled material. Do not inhale vapors.

6.1.1. Personal Protective Equipment for Non-Emergency Personnel

Protective Equipment: Wear the recommended personal protective equipment.

For dust generation: dust mask. Wear suitable protective clothing, gloves, and eye or face protection.

Emergency procedures: Ventilate the spill area. Do not touch or walk on spilled material. Evacuate unnecessary personnel. Mark the boundaries of the contaminated area and prevent unauthorized personnel from accessing the area.

Dust control measures: In case of dust formation: Wear protective goggles. Use a dust mask. Use appropriate respiratory equipment in case of vapor formation

6.1.2. Protective Equipment for People Responding in an Emergency

Protective Equipment: Do not attempt to intervene without appropriate protective equipment. For more information, refer to Section 8: "Exposure Controls/Personal Protection." Only qualified personnel equipped with suitable protective gear can intervene. Use appropriate protective clothing, gloves, and protective goggles/mask.

Emergency procedures: Avoid contact with skin and eyes. DO NOT TOUCH spilled material. Evacuate unnecessary personnel. Keep away from flammable materials. Keep people away from the hazard zone.

Prevent access to sewers, basements, and pits or any area where a spill could pose a risk. Ventilate the area. Stop the leak, if it is safe.

6.2. Environmental Precautions

Avoid release to the environment. Do not let it mix into sewers or streams. Do not discharge into sewerage systems or waterways without neutralization.

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6.3. Methods and Materials for Containment and Cleaning

Containment for limitation: Follow safety instructions. Absorb with inert absorbent material (e.g., sand, sawdust, a universal binder, silica gel). Control all spills by embankment or absorbents to prevent their move and entry to sewers or streams.

Cleaning procedures: Mechanically recover the product. Clean spills as soon as possible using absorbent materials. Absorb with liquid-binding material (e.g., sand, diatomaceous earth, acid- or all-purpose binding agents). Sweep or shovel the spills into suitable containers for disposal. Minimize dust formation.

Other information: Dispose of material or solid residues in an authorized facility. Dispose of contaminated materials in accordance with current regulations.

6.4. References to Other Sections

Regarding the use of personal protective equipment, refer to Section 8. For waste disposal after cleaning, refer to Section 13.

Section 7: Handling and Storage

7.1. Precautions for Safe Handling

Additional hazards during processing: Provide adequate ventilation to maintain vapor concentrations below the appropriate standard. Take all necessary technical precautions to prevent or minimize product dispersion in the workplace.

Precautions for safe handling: Provide good ventilation in the working area. Use personal protective equipment. Avoid dust formation. Avoid prolonged and repeated skin contact. Do not take soiled clothing outside the workplace.

Hygiene measures: Do not eat, drink, or smoke while using this product. Wash hands after handling the product.

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7.2. Conditions for Safe Storage, Including Incompatibilities

Technical precautions: Follow the current regulations. Ensure adequate ventilation, especially in enclosed areas.

Storage conditions: Store in a well-ventilated place. Keep cool.

Incompatible materials: Avoid extremely high or low temperatures.

Heat and ignition sources: Do not smoke. **KEEP THE CHEMICAL AWAY FROM:** Ignition sources, heat sources.

Information on mixed storage: Keep away from food, beverages, and animal feed.

Storage place: Avoid: Extremely high or low temperatures. Heat and ignition sources.

7.3. Specific End Uses

No additional information available.

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Section 8: Exposure Controls/Personal Protection

8.1. Control Parameters

If the process takes place at high temperature while processing this product, the regulations of the substances mentioned below must be followed. Provision of fresh air at the points where steam is released and exhaust ventilation ensure compliance with the tolerance limits specified below.

Substance	CAS-No.	Limits	Type	Value	Notes
Phenol	108-95-2	EU ELV	TWA	2 ppm 8 mg/m ³	Respirable
Phenol	108-95-2	EU ELV			Absorption through skin possible.
Phenol	108-95-2	EU ELV	STEL	4 ppm 16 mg/m ³	Respirable
Phenol	108-95-2	TR OEL	TWA	2 ppm 7,8 mg/m ³	
Phenol	108-95-2	TR OEL			Absorption through skin possible
Chlorobenzene	108-90-7	EU ELV	TWA	5 ppm 23 mg/m ³	Respirable
Chlorobenzene	108-90-7	EU ELV	STEL	15 ppm 70 mg/m ³	Respirable
Chlorobenzene	108-90-7	TR OEL	STEL	20 ppm 94 mg/m ³	
Chlorobenzene	108-90-7	TR OEL	TWA	10 ppm 47 mg/m ³	
2,2-bis(4-hydroxyphenyl) propane; (4,4'-isopropylidenediphenol)	80-05-7	EU ELV	TWA	2 mg/m ³	Respirable
2,2-bis(4-hydroxyphenyl) propane; (4,4'-isopropylidenediphenol)	80-05-7	TR OEL	TWA	10 mg/m ³	

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8.2. Exposure Controls

Appropriate engineering controls: Provide good ventilation in the working area. Avoid skin, eye, and clothing contact. Conduct work outdoors/under local exhaust ventilation/with respiratory protective equipment. For example, consider using an exhaust ventilation system for grinding activities. In areas of potential exposure, ensure the presence of emergency eye wash fountains and safety showers. When dust and/or fine particles are formed together with this product, it is sensible to minimize long-term exposure through inhalation and not exceed the occupational exposure limit value. Regularly measure exposures at regular intervals and at times of any changes that may affect employee exposure.

Hand protection: Protective gloves. EN 374.

Eye protection: Safety goggles. EN 166. Wear protective goggles in areas with excessive dust.

Skin and body protection: Use appropriate protective clothing.

In case of dust formation: wear dust-resistant clothing. In case of dust formation: head/neck protection. Wear suitable protective equipment in areas with a high probability of contact with eyes or skin.

Respiratory protection: Wear suitable respiratory protective equipment in case of insufficient ventilation.

Dust formation: P1 type filtered dust mask. Wear an approved mask in situations with excessive vapor formation.

Environmental exposure controls: Avoid release to the environment.

Consumer exposure control: Do not eat, drink, or smoke while using the product. Wash hands thoroughly after handling the product. Avoid contact during pregnancy or while breastfeeding.

Other information: Wash hands thoroughly after handling the product. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking.

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Section 9: Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Physical state: Solid

Color : It differs according to the coloring process.

Fragrance: Odorless

Odor threshold: No data available

pH: No data available

Relative evaporation rate (butyl acetate=1): No data available

Relative evaporation rate (ether=1): No data available

Melting point: No data available

Freezing point: Not applicable

Boiling point: no data Available

Flash point: Not applicable

Auto-ignition temperature: > 450 °C Not applicable

Decomposition temperature: > 380 °C

Flammability (solid, gas): Not flammable

Vapor pressure: No data available

Relative vapor density at 20 °C: No data available

Relative Density: No data available

Density: 1.2-1.4 g/cm³

Resolution: No data available

Log Pow: No data available

Viscosity, kinematics: Not applicable

Viscosity, dynamic: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Explosive limits: Not applicable

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9.2. Other Information

No additional information available.

Section 10: Stability and Reactivity

10.1. Reactivity

The product is not reactive under normal conditions of use, storage, and transport.

10.2. Chemical Stability

Stable under normal conditions

10.3. Possibility of Hazardous Reactions

Under normal conditions of use, there are no known hazardous reactions.

10.4. Conditions to Avoid

Under recommended storage and handling conditions, no situations are expected to occur. (see section 7).

10.5. Substances to Avoid

No additional information available.

10.6. Hazardous Decomposition Products

Under normal storage and use conditions, no hazardous decomposition products are expected. However, if the process involves high temperatures, the following substances' regulations should be followed: Phenol, Chlorobenzene, 4-tert-butylphenol, and 2,2-bis-(4-hydroxyphenyl)propane; (4,4'-Isopropylidenediphenol)

Section 11: Toxicological Information

11.1. Information on Toxic Effects - Acute Toxicity

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT - single exposure: Not classified

STOT - repeated exposure: Not classified

Aspiration hazard: Not classified

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Section 12: Ecological Information

12.1. Toxicity

Ecology - general: The product is not considered harmful to aquatic organisms or cause long-term adverse effects on the environment.

Acute aquatic toxicity: Not classified
Chronic aquatic toxicity: Not classified

12.2. Persistence and Degradability

No additional information available

12.3. Bioaccumulative Potential

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Bioaccumulative Potential	No additional information available

12.4. Mobility in Soil

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Mobility in Soil	No additional information available

12.5. Results of PBT and vPvB Assessment

No additional information available

12.6. Other Adverse Effects

Ozone: Not classified

Other adverse effects: No additional information available

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Section 13: Disposal Considerations

13.1. Waste Treatment Methods

Regional regulations (waste): Disposal must be carried out in accordance with official regulations. Waste Management Regulation published in the Official Gazette on 2nd April 2015, No. 29314, and the Regulation on Waste Incineration published in the Official Gazette on 6th June 2010, No. 27721.

Waste treatment methods: Dispose of the contents/container in accordance with the instructions of an approved collector. Do not dispose of together with household waste.

Additional Information: Empty containers should be collected for recycling, recovery, or waste treatment in accordance with local regulations.

Section 14: Transportation Information

According to ADR/RID/IMDG/IATA/ADN guidelines

ADR	IMDG	IATA	ADN	RID
14.1. UN Number				
The product is not classified as hazardous for transportation according to applicable regulations.				
14.2. Proper UN Shipping Name				
Not applicable				
14.3. Transport Hazard Classes				
Not applicable				
14.4. Packing Group				
Not applicable				
14.5. Environmental Hazards				
Harmful to the environment: No				

14.6. Special Precautions for the User

- Karayolu Taşımacılığı

No data available

- Deniz taşımacılığı

No data available

- Hava taşımacılığı

No data available

- İç sularda gemi nakliyesi

No data available

- Demiryolu taşımacılığı

No data available

14.7. Bulk Transport according to MARPOL 73/78 Annex II and IBC Code

Not applicable

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Section 15: Regulatory Information

15.1. Safety, Health, and Environmental Regulations Specific for the Substance or Mixture

15.1.1. National Regulations

Local Regulations (Türkiye): Regulation on Health and Safety Precautions for Working with Carcinogenic or Mutagenic Substances published in the Official Gazette on 6th August 2013, No. 28730.

Regulation on Health and Safety Precautions for Working with Chemical Substances published in the Official Gazette on 12th August 2013, No. 28733.

Regulation on the Transportation of Hazardous Materials by Road published in the Official Gazette on 24th October 2013, No. 28801.

Regulation on Personal Protective Equipment published in the Official Gazette on 29th November 2006, No. 26361.

Regulation on the Use of Personal Protective Equipment in Workplaces published in the Official Gazette on 2nd July 2013, No. 28695.

This product does not contain any substances that are controlled or prohibited for use under the Ozone-Depleting Substances Reduction Regulation published in the Official Gazette on 12th November 2008, No. 27052.

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SECTION 16: Other Information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	Effective Concentration (50%)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal Concentration (50%)
LD50	Lethal Dose (50%)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative, and Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
GBF	Safety Data Sheet
STP	Sewage Treatment Plant
TLM	Threshold Limit Mean
vPvB	Very Persistent and Very Bioaccumulative

Data sources: Classification according to "Regulation on Classification, Labeling, and Packaging of Substances and Mixtures" (SEA) published in the Official Gazette on 11th December 2013, No. 28848. ECHA (European Chemicals Agency).

Safety Data Sheet Supplier's

Name:

Certificate number:

Certificate validity date:

Contact details:

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