

**PRODUCT:** **PET – POLY (ETHYLENE TEREPHTHALATE)**  
According to Regulations (CE) 1907/2006, (CE) 1272/2008 and (EU) 453/2010 (Annex I)

**DATA:** Dec/2022      **SDS No.:** DC-COR-SGI-9-012      **VERSION:** 001

## SECTION I – SUBSTANCE AND COMPANY IDENTIFICATION

**SUBSTANCE IDENTIFICATION:** POLYETHYLENE TEREPHTHALATE - PET

**PRODUCT IDENTIFICATION (CHEMICAL NAME):** POLYETHYLENE TEREPHTHALATE - PET

**CAS #:** 25038-59-9

**REACH #:** Polymer - Exempt from Registration

**PRODUCT'S MAIN APPLICATIONS:** Main raw-material for the manufacture of PET bottles in the food industry.

**MANUFACTURER / SUPPLIER:** **ALPEK POLYESTER BRASIL S.A.**  
Rodovia PE 60, km 10, ZI - 3B, Suape - Ipojuca / PE  
CEP: 55.590-000 - Brasil  
Telefone: + 55 (81) 3311 4500  
Número de fax: + 55 (81) 3366 7701  
E-mail: venancio@alpekpolyester.com

**EMERGENCY TELEPHONE NUMBER:** **+55 (81) 3366 7777 – 24 hours/day**

## SECTION II - IDENTIFICATION OF RISKS

**SUBSTANCE CLASSIFICATION IN ACCORDANCE TO REGULATION (CE) No. 1272/2008:**

RISK CLASS	CLASS CODE AND RISK CATEGORY	RISK STATEMENT	RISK WARNING
Not Classified	Not Classified	Not Classified	Not Classified

**CLASSIFICATION IN ACCORDANCE WITH THE DIRECTIVE 67/548/CEE:**

CLASSIFICATION	RISK SYMBOL	RISK PHRASES
Not Classified	Not Classified	Not Classified

**MAIN ADVERSE EFFECTS:**

**PHYSICAL-CHEMICAL EFFECTS:** No adverse physical-chemical effects are expected under normal conditions of use.

**INGESTION WITH HEALTH EFFECTS:** Unknown.

**INHALATION EXPOSURE:** In combustion it produces irritating and toxic vapors.

**SKIN CONTACT:** Contact with molten material causes thermal burns.

**EYE CONTACT:** May cause irritation by mechanical action.

**SENSITIZATION:** Not dangerous.

**ENVIRONMENTAL EFFECTS:** Inert material, not considered dangerous.

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Does not present any particular risk to the environment, given that the recommendations presented under Section XIII related to the elimination, as well as national norms or local norms applicable to this purpose

**LABELLING IN ACCORDANCE WITH REGULATION No. 1272/2008/CE:**

**PICTOGRAM(S):** Not provided.

**WARNING:** Not provided.

**RISK STATEMENTS:** Not provided.

**OTHER RISKS (WHICH DO NOT RESULT IN CLASSIFICATION):**

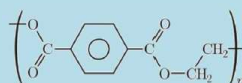
**CHEMICAL-PHYSICAL RISKS:** Non-oxidizing according to CEE criteria.

## SECTION III - COMPOSITION/INGREDIENTS INFORMATION

**COMPONENT NAME:** POLYETHYLENE TEREPHTHALATE - PET

**CONCENTRATION:** Variable

**STRUCTURAL FORMULA:**



**CHEMICAL FORMULA:** (C<sub>10</sub>H<sub>8</sub>O<sub>4</sub>)<sub>n</sub>

**MOLECULAR WEIGHT:** Variable

**SUBSTANCE WITH COMMUNITY OEL:** No

**CAS NAME:** Polyethylene terephthalate

**CAS NUMBER:** 25038-59-9

**IUPAC NAME:** Polyethylene terephthalate

**CE NUMBER:** No applicable

**IMPURITY/IMPURITIES (IF CLASSIFIED):** There are no impurities

**ADDITIVES/ADDITIVES (IF CLASSIFIED):** There are no additives

### RAW MATERIALS AND COMPOSITION

<u>MONOMER</u>	<u>COMPOSITION</u>	<u>CAS No.</u>	<u>REACH No.</u>
PTA - Purified Terephthalic Acid	82 – 86 %	100-21-0	01-2119485970-27-0058
MEG - Monoethylene Glycol	32 – 35 %	107-21-1	01-2119456816-28-0024
IPA - Isophthalic Acid	2 – 5 %	121-91-5	01-2119488938-12-0010
DEG - Diethylene Glycol	1 – 2 %	111-46-6	N/A

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## SECTION IV - FIRST AID MEASURES

### DESCRIPTION OF FIRST AID MEASURES:

<b>EYE CONTACT</b>	If molten material gets in contact with the eyes, immediately wash with water in abundance. Seek medical help immediately.
<b>SKIN CONTACT</b>	In case of burns with molten material, immediately wash with water in abundance and soap. Do not remove the material from the skin. This type of burn shall be treated as a thermal burn.
<b>INGESTION</b>	The absorption of this material is not expected by the digestive system; thus, it is not necessary to cause vomiting.
<b>INHALATION</b>	It doesn't apply specifically.

### MOST IMPORTANT SYMPTOMS AND EFFECTS (ACUTE AND LATE):

**ACUTE AND LATE EFFECTS**      Not provided.

### INDICATION OF ANY IMMEDIATE MEDICAL CARE AND SPECIAL TREATMENT REQUIRED:

<b>MEDICAL MONITORING</b>	In case of contact with molten material, cool the product with water; never remove from the skin. The emergency treatment as well as the medical treatment after super-exposure must be directed towards the control of the entire patient condition for all symptoms and clinical condition of the patient.
<b>ANTIDOTES, IF SUCH ARE KNOWN</b>	Unknown
<b>CONTRAINDICATIONS</b>	Unknown
<b>IMMEDIATE TREATMENT IN THE WORK SITE</b>	Not provided.

## SECTION V - FIRE-FIGHTING MEASURES

<b>APPROPRIATE FIRE EXTINGUISHING METHODS:</b>	Water, foam, CO2, dry powder.
<b>NON-APPROPRIATE FIRE EXTINGUISHING METHODS:</b>	Do not use water jet / water-based fire extinguisher.
<b>COMBUSTION SUBSTANCES:</b>	Carbon dioxide, carbon monoxide. The smoke can also contain combustible products from different compositions, presenting risks of explosions when in contact with air.
<b>SPECIAL PROCEDURES:</b>	The material, as a powder, may compose explosive combinations with air.

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**FIREMAN PROTECTION:** Independent breathing equipment and proper protective clothing must be used when extinguishing the fire.

## SECTION VI - MEASURES FOR ACCIDENTAL SPILL

**PERSONAL PRECAUTIONS:**

Ventilation: good general ventilation is sufficient for all foreseen operational processes.

Breathing Protection: no protection is necessary under normal conditions. In dusty atmospheres, use breathing equipment with dust filter.

Eye protection / face: use protective glasses.

Skin Protection: use thermal insulating gloves when handling molten material.

Decontamination recommended measure: washing the eyes.

Collect in proper receptacles and treat as non-dangerous industrial residue.

**ENVIRONMENTAL PRECAUTIONS:**

Avoid spreading the product. Prevent that the product or water from emergency sources contaminate water streams, gully, culverts, or sewage systems.

**CLEANING METHODS:**

Collect spilled material and transfer it to proper recipients for final disposal as reprocessing material or residue. Be careful once such spills may be very slippery.

## SECTION VII - HANDLING AND CONSERVATION

### PRECAUTIONS FOR SAFE HANDLING:

**RECOMMENDATIONS FOR HANDLING**

Does not require specific or special technical measures.

When opening the packaging, protect the body and face. Personal protective equipment (PPE) must be worn during handling.

**RECOMMENDATIONS FOR PERSONAL HYGIENE**

Handle the material respecting general safety rules and industrial hygiene. Avoid any sort of physical or chemical contamination.

### CONDITION FOR THE SAFE CONSERVATION INCLUDING ANY INCOMPATIBILITIES:

Stability: stable under normal conditions.

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Avoid heating / excessive heat.

Avoid any sort of contamination.

Avoid exposure to the elements, which causes packaging and product degradation by the action of humidity and UV rays. Store product at room temperature, in well ventilated and dry location. Protect from direct and indirect heat sources.

**RISK MANAGEMENT MEASURES RELATED TO:**

<b>POTENTIAL SOURCES OF IGNITION</b>	Do not expose to high temperatures and heat sources.
<b>ENVIRONMENTAL CONDITIONS</b>	Do not expose to bad weather.
<b>ENVIRONMENTAL PRESSURE</b>	No restriction procedure is expected.
<b>TEMPERATURE</b>	Do not expose the product to temperatures above 260°C once it degrades the product with properties loss.
<b>SUNLIGHT</b>	Do not expose to direct sunlight.
<b>HUMIDITY</b>	Do not store in humid location.
<b>VIBRATION</b>	No restriction procedure is expected.

**MATERIAL TO MAINTAIN THE INTEGRITY OF THE SUBSTANCE:**

<b>STABILIZERS</b>	Usage of stabilizers is not expected.
<b>ANTIOXIDANTS</b>	Usage of anti-oxidizing is not expected.

**OTHER RECOMMENDATIONS:**

<b>REQUIREMENTS REGARDING VENTILATION</b>	General good ventilation is sufficient for all expected operational processes
<b>WAREHOUSE SPECIFIC PROJECT</b>	Not requested based on the classification.
<b>PACKAGING COMPATIBILITY</b>	Please, check Section X.
<b>SPECIFIC FINAL USE(S):</b>	There are no specific recommendations.

**SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**CONTROL PARAMETERS:**

<b>EUROPEAN / NATIONAL WORK EXPOSURE LIMITS</b>	Limit value (Brazil, Ordinance MTE (sic) 3.214/78 NR 15 - Annex 11).
<b>OTHER EUROPEAN / NATIONAL WORK EXPOSURE LIMITS</b>	Not established
<b>EUROPEAN (BEI) / NATIONAL BIOLOGICAL LIMITS</b>	Not established

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<b>OTHER EUROPEAN (BEI) / NATIONAL BIOLOGICAL LIMITS</b>	Not established
<b>RECOMMENDED MONITORING PROCEDURES</b>	Not established
<b>DNEL VALUES (acronym in English, level derived from exposure without effects)</b>	Not established
<b>PNEC VALUES (acronym in English, probable concentration without effects)</b>	Not established
<b>EXPOSURE CONTROLS:</b>	
<b>PROPER ENGINEERING CONTROLS:</b>	The adoption of proper engineering controls is also based on the local Risk Assessment performed by the employer in their working conditions (substance use), especially when a standardized exposure scenario is not available.
<b>Personal protective measures, for examples. Personal Protective Equipment (PPE):</b>	If the risk assessment results performed in accordance to Directive 98/24/EEC demonstrate that the collective and general measures for risk management are no sufficient to reduce risks and, if the exposure to the substance may not be reduced by other contaminant means, the proper personal protective equipment (PPE) must be adopted in accordance to the appointed in the EN guidance.
<b>FACE AND EYE PROTECTION</b>	Anti-impact hermetic safety goggles for Chemical products or face protection.
<b>SKIN PROTECTION / HAND PROTECTION</b>	Leather waterproof gloves or PVC gloves.
<b>OTHERS - BODY PROTECTION</b>	Select proper protective equipment based on usage activity and possible exposure.
<b>BREATHING PROTECTION</b>	No protection is necessary under normal conditions.  In dusty atmospheres, use suitable breather with filter for fine dust.
<b>THERMAL RISKS</b>	Not foreseen for standard use.
<b>ENVIRONMENTAL EXPOSURE CONTROLS:</b>	Environmental controls are not required.

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

<b>PHYSICAL CONDITION:</b>	Solid
<b>COLOUR:</b>	Varied according to formula
<b>ODOR:</b>	Odorless
<b>pH:</b>	Does not apply (product is not soluble in water).
<b>BOILING POINT:</b>	There is no relevant information.
<b>FUSION POINT:</b>	22° C - 260° C

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<b>IGNITION POINT:</b>	There is no relevant information.
<b>AUTO-IGNITION TEMPERATURE:</b>	There is no relevant information.
<b>EXPLOSIVE PROPERTIES:</b>	There is no relevant information.
<b>STEAM PRESSURE:</b>	There is no relevant information.
<b>DENSITY:</b>	> 1 g/cm <sup>3</sup>
<b>SOLUBILITY IN WATER:</b>	Insoluble
<b>VOLATILE MATERIAL (%):</b>	There is no relevant information.
<b>VOLATILE ORGANIC COMPOUNDS:</b>	There is no relevant information.
<b>OTHER INFORMATION:</b>	There is no relevant information.

## SECTION X - STABILITY AND REACTIVITY

<b>CHEMICAL STABILITY:</b>	Stable under normal conditions of use.
<b>POLYMERIZATION RISKS:</b>	There is no relevant information.
<b>CONDITIONS TO AVOID:</b>	Keep away from strong oxidizing agents.
<b>INCOMPATIBLE MATERIALS OR SUBSTANCES:</b>	There is no relevant information.
<b>HARMFUL DECOMPOSITION PRODUCTS:</b>	At high temperatures, volatile organic components can be released.

## SECTION XI - TOXICOLOGICAL INFORMATION

<b>EYE CONTACT:</b>	Not dangerous in accordance with the European Union Directive Standards.
<b>SKIN CONTACT:</b>	Not dangerous in accordance with the European Union Directive Standards.
<b>INHALATION:</b>	Not dangerous in accordance with the European Union Directive Standards.
<b>INGESTION:</b>	Not dangerous in accordance with the European Union Directive Standards.
<b>CHRONIC EFFECTS ON HUMANS:</b>	Not dangerous in accordance with the European Union Directive Standards.

## SECTION XII - ECOLOGICAL INFORMATION

<b>ECOTOXICIDADE:</b>	No adverse environmental hazard sat reported
<b>PERSISTENCE AND DEGRABILITY:</b>	No adverse environmental hazard sat reported
<b>MOBILITY:</b>	No adverse environmental hazard sat reported
<b>BIOACCUMULATION:</b>	No adverse environmental hazard sat reported
<b>OTHER HARMFUL EFFECTS:</b>	No adverse environmental hazard sat reported

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## SECTION XIII – FINAL DISPOSAL INFORMATION

### TREATMENT METHODS AND PRODUCT FINAL DISPOSITION, RESIDUE AND USED PACKAGING

Recycle the product to the maximum. If necessary to recycle, use a crushing and agglomeration operation. Take all necessary precautions to avoid creating dust / fine powder. The nonrecycled product may be disposed as other general plastics.

Incinerate only in proper facilities.

Eliminate residue according to the local applicable legislation.

## SECTION XIV - TRANSPORT INFORMATION

Not classified for transport according to RID/ADR, IMO/IMDG, ICAO/IATA regulation.

Transport in large quantities in accordance with Marpol 73/78 Annex II and IBC code: not applicable.

## SECTION XV - REGULATORY INFORMATION

All other information about the regulation are recorded if not presented in other sections/subsection of the Safety Data Sheet.

### SPECIFIC SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION FOR THE SUBSTANCE

European Label Declaration: handle in accordance to the good practices for industrial health and hygiene.

European Inventory for Chemical Substances Available in the Market (EINECS): this product is not currently listed.

## SECTION XVI - OTHER INFORMATION

### BIBLIOGRAPHIC SOURCES:

There is no relevant information.

### ABBREVIATIONS:

- ACGIH: American Conference of Industrial Hygienists | (Conferência Americana de Higienistas Industriais e Governamentais)
- ADR: Agreement over the transportation of harmful substances on roads/highways | (Acordo sobre o transporte de mercadorias nocivas por Estrada)
- BCF: Bioconcentration Factor | (Fator bioacumulado)
- BEI: Biological Exposure Index (Indici di esposizione biologica) | Índices de Exposição Biológica (Indici di esposizione biologica)
- CAS: Chemical Abstract Service (American Chemistry Society) | Serviço Abstrato Químico (divisão da Sociedade Americana de Química)
- CLP: Classification, Labeling and Packaging | (Classificação, Rotulagem e Empacotamento)
- CMR: Carcinogenic, Mutagenic, Toxic for reproduction | (Carcinogênico, Mutagênico, Tóxico para a reprodução)



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- EINECS: European Inventory of Existing Commercial chemical Substances | (Inventário Europeu sobre as Substâncias Comerciais existentes)
- EPA: US Environmental Protection Agency | (Agência de Proteção Ambiental dos EUA)
- GHS: Global Harmonized System | (Sistema Globalmente Harmonizado)
- IARC: International Agency for Research on Cancer | (Agência Internacional para Pesquisa sobre o Câncer)
- IATA: International Air Transport Association Code | (Código da Associação Internacional de Transporte Aéreo)
- IMDG: International Maritime Dangerous Goods Code | (Código Marítimo Internacional de Mercadorias Nocivas)
- IUPAC: International Union of Pure and Applied Chemistry | (União Internacional de Química Pura e Aplicada)
- LOEL: Lowest Observed Effect Level | (Menor Nível de Efeito Observado)
- N.A.: No Applicable
- N.A.: No Available
- NOAEL: no observed adverse effect level | (Nenhum Nível de Efeito Adverso Observado)
- NTP: National Toxicology Program | (Programa Nacional de Toxicologia)
- OEL: Occupational Exposure Limit | (Limite de Exposição Ocupacional)
- OSHA: Occupational Safety and Health Administration | (Administração de Segurança e Saúde Ocupacional)
- PPE: Personal Protection Equipment | (Equipamento de Proteção Pessoal)
- PBT: Persistent, bioaccumulative and toxic substances | (Substâncias Tóxicas, Biocumulativas e Persistentes)
- RID: Regulations Concerning the International Transport of Dangerous Goods by Rail | (Regulamento relativo ao transporte internacional ferroviário de mercadorias nocivas)
- TLV/TWA: Threshold Limit Value-Time-Weighted Average | (Valor Limite/ Limite de Tolerância)
- vPvB: Very Persistent, Very Bioaccumulative | (muito persistente, muito bioacumulado)

**ALL INFORMATION CONTAINED HEREIN ATTEMPT TO DESCRIBE THE PRODUCT FROM THE SAFETY REQUIREMENTS POINT OF VIEW ACCORDING TO MSDS (ACRONYM IN ENGLISH FOR MATERIAL SAFETY DATA SHEETS) FROM THE MANUFACTURER.**