



## SAFETY DATA SHEET PET/RPET PREFORM

### 1 Identification of the substance/mixture and of the company:

#### 1.1 Identification of the product

Form of the product: Preform

Type of substance: Polymer

Name: SGT preform

Commercial product name: SGT preform

Synonyms: Préformes PET, Polyethylene terephthalate, PETP,

CAS Number: 25038-59-9

Molecular formula:  $(C_{10}H_8O_4)_n$

#### 1.2 Relevant identified uses of the product and inadvisable uses:

Relevant identified uses (non-exhaustive):

Industrial/professional use: Manufacture of plastic bottles.

Blow moulding process.

Inadvisable use:

No information available.

#### 1.3 Supplier of the safety data sheet

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Date of creation of the MSDS : 07/11/2023

Revision: NA

## 1.4 Emergency phone numbers:

	Organization/Company	Address	Emergency number
	ORFILA		+33 (0)1 45 42 59 59
France	Emergency Poisons and Toxicovigilance Unit of Paris Fernand Widal hospital	200 Rue du Faubourg Saint-Denis 75475 Paris Cedex 10	+33 (0)1 40 05 48 48

## 2 Identification of the hazards

Like other inert materials, particles of resin are physically irritant for eyes.  
Molten polymer adheres to the skin and can cause serious burns.

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] and its amendments:  
Unclassified

Classification according to EC directives 67/548/EEC or 1999/45/EC and its amendments: is not a dangerous substance or preparation.

#### Summary of the hazards:

Physical hazard: No classification for physical hazards.

Hazards to human health: No classification for health hazards.

Environmental hazards: No classification for environmental hazards, but do not release to the environment.

Specific risks: Data unknown.

Main symptoms: Data unknown.

### 2.2 Labelling:

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]:

PET preform is not listed in Annex XIV of REACH.

Hazard pictograms: none.

Signal word: none.

Hazard statement: The substance does not meet the classification criteria.

Additional warnings: Data unknown.

### 2.3 Other hazards:

No further information available.

### 3 Composition/information on the components

#### 3.1 Substance

Chemical name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polyethylene terephthalate	(CAS no.) 25038-59-9	100	Unclassified See section 2

Remarks on the composition: The full text of the R and H phrases is presented under heading 16.

### 4 First aid

#### 4.1 Description of first aid

First aid after inhalation: The substance is not likely to be harmful by inhalation.

In case of exposure to excessive dust content, move the person into the open air. If symptoms appear, seek medical advice.

First aid after contact with skin: The product is not likely to be hazardous in case of contact with skin. If irritations or other symptoms appear, seek medical advice.

In case of contact with the molten product, cool rapidly with water and seek medical advice. Do not attempt to remove the polymer from the skin.

First aid after eye contact: Rinse eyes thoroughly with water as a precaution. If an irritation or symptoms appear, seek medical advice.

In case of contact with the molten product, cool rapidly with water and seek medical advice immediately.

First aid after ingestion: Do not make the person vomit and seek medical advice if necessary.

Main symptoms and effects, acute and delayed:

Symptoms/lesions after inhalation: Exposure to the product in dust form can cause irritation of the airways.

Symptoms/lesions after contact with skin: The molten product causes burns.

Symptoms/lesions after eye contact: Exposure to dust or contact with the product can cause irritation.

Symptoms/lesions after ingestion: No known data.

#### 4.2 Indication of possible immediate medical care and particular necessary treatments:

Any contact with molten polymer causes burns. Make sure that first aid is administered and seek medical assistance if the symptoms so warrant.

## 5 Fire-fighting measures

### 5.1 Extinguishing medium:

Appropriate extinguishing mediums: carbon dioxide (CO<sub>2</sub>), powder, alcohol-resistant foam, water spray.

Inappropriate extinguishing medium: Do not use a high-pressure water jet, as it could spread the fire.

### 5.2 Particular hazards resulting from the substance or mixture

Fire hazard: Is not classified as flammable according to EC criteria. It is not fireproof.

Exceptional explosion hazard: Dust can form an explosive mixture with air. Acetaldehyde fumes form explosive mixtures in the air and can ignite instantaneously at temperatures higher than 175°C (347°F).

Linear polyesters burn easily when they melt, with soot-laden flames mainly releasing carbon dioxide, carbon monoxide, hydrocarbons and aldehydes.

### 5.3 Advice for fire-fighters

Fire-fighting instructions: Evacuate the area and move staff to a safe place; do not inhale smoke.

Protections in the event of fire: Wear full protective clothing, including self-contained positive-pressure breathing apparatus, a helmet and a face mask.

Other information (fire-fighting measures): Do not pour water used on fire into sewers or watercourses.

## 6 Measures to take in the event of accidental dispersal.

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

PET preform dropped on the ground can lead to a risk of slipping. Sweep or pick up the granules and put them in an appropriate container for future disposal.

### 6.2 Environmental protection precaution

Avoid any dust forming.

Do not dispose of it into sewers or watercourses.

### 6.3 Containment and cleaning method and equipment:

For retention: Sweep or pick up the spilled product and put it in a sealed container, appropriate for future disposal.

**6.4 Reference to other sections:**

Not applicable.

**7 Handling and storage**

**7.1 Precautions to take for safe handling**

Reduce the production and build-up of dust. Ventilate all places where dust forms. Avoid dispersal of PET preform. Where applicable, see heading 6.1. Molten matter can cause burns, handle it with care, with appropriate equipment and PPE.

**7.2 Conditions for safe storage, including any incompatibilities:**

Observe regulations applying to your premises.  
 Keep in a dry, cool and well-ventilated place.  
 Keep the product away from sources of heat, sparks and flames.  
 Keep in the original container.

**7.3 Particular end use(s):**

Data unavailable.

**8 Exposure controls/personal protection**

**8.1 Control parameters**

**Polyethylene terephthalate (CAS Number: 25038-59-9)**

Country	Measures	Threshold values
France	AEV	Inhalable dust 10mg/m <sup>3</sup> Cellular dust 5 mg/m <sup>3</sup>

For other countries, observe local regulations.

**Acetaldehyde (CAS Number: 75-07-0)**

France	AEV	180 mg/m <sup>3</sup> 100 ppm
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For other countries, observe local regulations.

## 8.2 Exposure controls/personal protection

Appropriate technical controls: General ventilation is normally required.

Hand protection: Not usually needed. However, wearing protective gloves is good industrial practice. If the material is hot, wear heat-resistant and impervious gloves.

Eye protection: Not required. However, wearing protective goggles is good industrial practice. Wear a face shield when handling hot weights.

Skin and body protection: Not required. However, wearing protective clothing is good industrial practice.

Protection of the airways: If dust or fumes form, wear a mask or self-contained breathing apparatus.

Hygiene measures: Wash hands before breaks and at the end of the day.

Environmental exposure control: Do not dispose of it into sewers or watercourses.

## 9 Physical and chemical properties

### 9.1 About essential physical and chemical properties

Form: PET preform

Colour: all type.

Odour: odourless.

Olfactory threshold: No data available

pH: No data available

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

Melting point: > 220 °C

Freezing point: No data available

Boiling point: No data available

Flash point: No data available

Spontaneous combustion T°: No data available

Decomposition temperature: The product is stable in normal handling conditions.

Flammability (solid, gas): No data available

Steam pressure: No data available

Relative vapour density: No data available

Relative density: No data available

Absolute density of PET: 1.33 - 1.45 g/cm<sup>3</sup>

Solubility: The product is not soluble in water.

Viscosity, kinematics: No data available

Viscosity, dynamics: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Explosiveness limits: No data available

### 9.2 Other information

No other information available

## 10 Stability and reactivity

### 10.1 Reactivity

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

### 10.2 Chemical stability

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

### 10.3 Possibility of dangerous reactions

See heading 5.2

### 10.4 Conditions to be avoided

Avoid concentrations of dust, heat, flames or sparks.

### 10.5 Incompatible materials

PET preform is attacked by the following solvents: Oxidizing mineral acid; concentrated alkali; cresol; phenol.

### 10.6 Hazardous decomposition products

Linear polyesters burn easily when they melt, with soot-laden flames mainly releasing carbon dioxide, carbon monoxide, hydrocarbons and aldehydes.

## 11 Toxicological information

### 11.1 Information on toxicological effects:

In view of this product's considerable molecular mass, it does not present any particular toxicological risk, apart from the usual hazard due to inert dust.

POLYETHYLENE TEREPHTHALATE (CAS NUMBER: 25038-59-9)

Information on the probable exposure pathways:

Ingestion: unlikely

Inhalation: unlikely

Contact with the skin: unlikely

Contact with the eyes: unlikely

Symptoms: data unknown

#### Toxicity for humans:

Acute toxicity: data unknown, the product has not been tested, but in view of its considerable molecular mass, it does not present any particular toxicological risk.

Skin corrosion/skin irritation: data unknown.

Serious eye lesions, eye irritations: data unknown.

Respiratory or cutaneous sensitization: data unknown.

Germ cell mutagenicity: data unknown.

Carcinogenicity: data unknown.

Toxicity for reproduction: data unknown.

Specific target organ toxicity - single exposure: data unknown.

Specific target organ toxicity - repeated exposure: data unknown.

Aspiration hazard: data unknown.

Information on the mixtures and on the substances: data unknown.

## 12 Ecological information

### 12.1 Toxicity

The product is not soluble in water. Consequently no ecological risk is envisaged if the product is handled appropriately.

### 12.2 Persistence and degradability

On the basis of similar substances, the product is not easily biodegradable.

### 12.3 Bioaccumulative potential:

In view of the product's physical properties, there should not be any bioaccumulation.

N-octanol/water partition coefficient (log K<sub>ow</sub>): data unknown.

Bioconcentration factor (BCF): data unknown.

### 12.4 Mobility in the soil

Data unknown.

### 12.5 Results of PBT and VPVB assessments

This substance is not classified as PBT or vPvB.



## 12.6 Other adverse effects

The substance should not be released to sewers or watercourses as it is hardly biodegradable.

## 13 Disposal considerations

### 13.1 Waste treatment methods

PET preform can be recycled.  
PET preform can be repurposed through incineration.  
Current local regulations should be observed.  
The waste identification code is assigned by the user.

## 14 Transport-related information.

ADR: Not regulated as a harmful substance.  
RID: Not regulated as a harmful substance.  
ADN: Not regulated as a harmful substance.  
IMDG: Not regulated as a harmful substance.  
ICAO/IATA: Not regulated as a harmful substance.

## 15 Regulatory information

### 15.1 Regulations/legislation concerning the substance or mixture with regard to safety, health and the environment

#### EU regulations:

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I  
Is not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I- part 1  
Is not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I- part 2  
Is not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I- part 3

Is not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Is not listed.

Regulation (EC) No. 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register, Annex II

Is not listed.

Authorizations:

Regulation (EC) No. 1907/2006, REACH Annex XIV, substance subject to authorization, and its amendments.

Is not listed.

Use restrictions:

Regulation (EC) No. 1907/2006, Annex XVII, Substances subject to market release and use restrictions.

Not regulated.

Directive 2004/37/EC: On the protection of workers from the risks related to exposure to carcinogens or mutagens at work. Retranscribed in the government order of 13 July 2006.

Is not listed.

Directive 92/85/EEC: on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Is not listed.

Other EU regulations:

Directive 96/82/EC (SEVESO II) on the control of major-accident hazards involving dangerous substances.

Is not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Is not listed.

Directive 94/33/EC on the protection of young people at work

Is not listed.

Other regulations:

Regulation (EC) No. 1272/2008/EC and its amendments.  
The substance does not meet the classification criteria.

National regulations:

The substance is not listed in the classification of classified facilities.

## 15.2 Chemical safety assessment

Not carried out.

## 16 Other information

Full text of risk and hazard phrases:

Not applicable, non-hazardous substance.

Information on the revision of this SDS:

Revision 1 (28/04/2020): Correction of the Fragnes la Loyère postcode on page 1 and of the revision number

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.

SCBA: Self-Contained Breathing Apparatus.

CAS: Chemical Abstracts Service (a unique numerical identifier assigned to a chemical substance, polymer, biological sequence and alloy).

EC: European Community.

EEC: European Economic Community.

CLP: Regulation concerning Classification, Labelling and Packaging.

SDS: Safety Data Sheet.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods Code.

INRS: Institut National de Recherche et de Sécurité (French research and safety institute).

ICAO: International Civil Aviation Organization.

ORFILA: Emergency telephone number providing the contact details of all the emergency poisons information centres in France.

PBT: Persistent, Bio-accumulative and Toxic substances.

REACH: Registration, Evaluation, Authorization and Restriction of Chemicals.

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail.

EU: European Union

vPvB: very Persistent and very Bioaccumulative substances.

AEV: Average exposure (threshold) value at places of work.



## Société Générale des Techniques

Preform safety data sheet

Compliant with Regulation (EU) No. 2015/830 of 28/05/2015

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This safety data sheet contains key details concerning the PET preform product. It is intended to guide the user for appropriate and careful handling of the PET preform.

It lies with the addressees of this MSDS to ensure that the information in this document has been read and understood by anyone likely to use, handle, dispose of or encounter the product in any manner whatsoever. This data and information are the fruit of our knowledge on the day of issue of this safety data sheet.

The company cannot accept any liability for damage to objects or for injuries caused due to a lack of understanding of the information provided in this safety data sheet.

If the PET preform is intended for another application, please contact SGT for further information.

### Bibliographical data:

INRS fact sheets on Plastics, Risk and thermal analysis of polyethylene terephthalate.