

# SAFETY DATA SHEET

## KLAREX<sup>®</sup>



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According to Regulation (EC) No. 1907/2006 REACH

### 1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY/ undertaking

#### 1.1 Identification of the product

<b>Chemical name:</b>	General Purpose Polystyrene
<b>Designation or trade name:</b>	KLAREX <sup>®</sup>
<b>Commonly used synonyms:</b>	GPPS

#### 1.2 Use of the product:

Used mainly in injection moulding and extrusion.

#### 1.3 Identification of the company

Responsible for placing on the market:

##### **MONOTEZ S.A.**

Address: 111 Lefkis, Kryoneri 14568, Athens, Greece

Tel: (+30210) 2811135, Fax: (+30210) 2818726

e-mail: [info@monotez.com](mailto:info@monotez.com)

#### 1.4 Emergency calls

Emergency telephone number: (+30210) 2811135, (+3022620)31257

Official advisory body telephone number: (+30210) 2811135, (+3022620)31257

### 2 HAZARDS IDENTIFICATION

**Classification:** Not classified as dangerous for supply / use (Directive 67/548/EEC & 1999/45/EC)

The following information is based on a consideration of the properties of the main components of this mixture.

- Molten material can cause severe burns.
- Dust may have irritant effect on skin, eyes and air passages.
- Danger of dust explosion in fine dusty form or when ground to a small particle size.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### General description of the ingredients, their concentrations and hazards

**Product description:** Polystyrene (CAS N°9003-53-6)

**Dangerous components/ constituents:** Not classified as dangerous for supply / use (Directive 67/548/EEC & 1999/45/EC)



<http://www.monotez.com>  
[info@monotez.com](mailto:info@monotez.com)

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### 4 FIRST AID MEASURES

**Required immediate medical attention:** See below first aid.

**Symptoms and effects:** May cause irritation to eyes, skin and air passages. Molten material can cause severe burns.

**Inhalation:**

Remove patient from exposure, keep warm and at rest.

**Ingestion:**

Do not induce vomiting. Provided the patient is conscious, wash out mouth with water and give 200-300 ml of water to drink.

**Skin Contact:**

Molten material can cause severe burns. Do NOT try to peel molten polymer from the skin. Cool rapidly with water. Obtain medical attention.

**Eye Contact:**

After initial flushing, remove any contact lenses and continue flushing. Continue irrigation until medical attention can be obtained.

**Further Medical Treatment:**

Unlikely to be required but if necessary treat symptomatically.

**Specific and immediate means of treatment to be available at the workplace:** Not Available

### 5 FIRE FIGHTING MEASURES

**General:**

Product is not classified as flammable, but will burn on contact with flame or exposure to high temperature. This product may give rise to hazardous fumes in a fire (carbon monoxide).

**Suitable Extinguishing Media:**

Extinguish preferably with waterspray, fog or foam.

Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

**Unsuitable Extinguishing:**

Do not use water jet.

**Fire Fighting Protective Equipment:**

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

**Other Information:**

Keep adjacent containers cool by spraying with water.

### 6 ACCIDENTAL RELEASE MEASURES

**Safety instructions:**

Avoid inhalation of dusts. Wear suitable protective clothing and eye/face protection.

**Clean up methods:**

Small spillages: Sweep up and shovel into waste drums or plastic bags. Transfer to a container for disposal.

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Large spillages: Use vacuum equipment for collecting spilt materials, where practicable. Transfer to a lidded container for disposal or recovery.

## 7 HANDLING AND STORAGE

### 7.1 Handling

#### Safety precautions:

Avoid contact with heated or molten product. Avoid generation of dust. Do not breathe dust. Do not breathe fumes/vapour.

#### Specific requirements:

Provide adequate ventilation. Take precautionary measures against static discharges. Ensure adequate earthing. Use non-sparking hand tools and explosion proof electrical equipment.

### 7.2 Storage

- Keep container tightly closed and in a well-ventilated place.
- Keep away from sources of ignition.
- Keep away from heat and direct sunlight.
- Store at ambient temperatures

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### General:

Wear protective equipment to comply with good occupational hygiene practice.

#### Respirators:

An approved dust mask or organic vapour respirator should be worn if exposure to levels above the occupational exposure limit is likely.

#### Eye Protection:

Safety spectacles.

#### Gloves:

Not normally required. Wear suitable gloves (PVC) if prolonged skin contact is likely.

#### Other Wear suitable protective clothing:

Wear safety or chemical resistant shoes or boots.

## OCCUPATIONAL EXPOSURE LIMITS

No Occupational Exposure Limit assigned.

It is recommended that the following are adopted:

SUBSTANCE	CAS No.	LTEL (8 hrTWA mg/m)	NOTE
Dust	-	4	OES

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### 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Form	Granules
Colour	Colourless
Flash point:	>350°C
Auto-ignition temperature	circa 490°C
Density	1020-1050 kg/m <sup>3</sup> at 20°C
Bulk density	620 kg/m <sup>3</sup> at 20 °C
Solubility in water	Insoluble
Solubility in other solvents:	Soluble in aromatics, halogenated solvents and ketones.

### 10 STABILITY AND REACTIVITY

Stable under normal conditions.

**Conditions to avoid:**

Generation of dust.

**Materials to avoid:**

Strong oxidising agents.

**Hazardous Decomposition Product(s):**

Trace quantities of styrene monomer, carbon monoxide, aldehydes, and organic acids may be formed.

### 11 TOXICOLOGICAL INFORMATION

This assessment is based on information available on similar products.

**Inhalation:**

Unlikely route of exposure.

**Ingestion:**

Low oral toxicity. LD50 >2000 mg/kg

**Skin Contact:**

Dust may cause irritation. LD50 >2000 mg/kg. The molten form can cause thermal burns if in contact with skin.

**Eye Contact:**

May cause irritation. The molten form can cause thermal burns if in contact with eyes.

**Long Term Exposure (Dusts):**

Repeated exposure to high levels may cause irritation to skin, eyes and respiratory system.

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### 12 ECOLOGICAL INFORMATION

**Basis for assessment:** Information given is based on knowledge of the ingredients and the toxicology of similar substances.

#### 12.1 Ecotoxicity:

**Aquatic:** Non-toxic to aquatic life.

**12.2 Mobility:** Known or expected distribution to environmental compartments: The product is essentially insoluble in water. Sinks in water.

**12.3 Degradability- Biodegradation:** The product is not readily biodegradable.

**12.4 Bioaccumulation:** The product has low potential for bioaccumulation.

### 13 DISPOSAL CONSIDERATIONS

**Appropriate methods of disposal of the product: Incineration, recycling, land filling:** Recover or recycle if possible.

**Appropriate methods of disposal of contaminated packaging:** Refer to Section 7. Remove all packaging for recovery or waste disposal.

**Relevant European Community provisions relating to waste:** EC Directive 94/62.

**National or regional provisions in force:** Implementation of EU regulations and directives. Local provisions.

### 14 TRANSPORT INFORMATION

Not classified as dangerous for transport.

### 15 REGULATORY INFORMATION

#### Information on classification and labelling:

Not classified as dangerous for supply/use.

Company responsible for placing the product on the EU market:

**MONOTEZ S.A.**

Address: 141 G. Papandreou Metamorfoosi 14452, Athens, Greece

Tel: (+302102811135)

**Chemical name of the substance/s:** GPPS



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## 16 OTHER INFORMATION

**Information of importance for the health and safety of the user and the protection of the environment:**

**Training advice:**

Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

**Recommended restrictions on use:**

The product is intended for professional use only.

**Further information:**

EINECS /ELINS(EC): \*ingredients listed

MITI (Japan): \* ingredients listed

TSCA (USA): \* ingredients listed

AICS (Australia): \* ingredients listed

DSL (Canada): \* ingredients listed

[\* subject to specific check]

**Disclaimer:** Information provided is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

1<sup>st</sup> edition: 4 January 2011

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