



# TOTAL POLYSTYRENE A RESISTANCE AU FEU AMELIOREE (HALOGEN FREE)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue:7/8/2015 Revision date:7/8/2015Supersedes:4/1/2014 Version: 11.3

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

1.1. Product identifier

Product form : Mixture

Product name : TOTAL POLYSTYRENE A RESISTANCE AU FEU AMELIOREE (HALOGEN FREE)

CAS No : 9003-53-6 ; 9003-55-8

Type of product : Polymers

Formula : (C8H8)x; (C8H8)x - (C4H6)y
Synonyms : 9003-53-6; 9003-55-8

Product group :

Other means of identification : POLYSTYRENE A RESISTANCE AU FEU AMELIOREE

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

#### 1.2.1. Relevant identified uses

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Main use category : Professional use

Use of the substance/mixture : For more detailled information, see technical data sheet

## 1.2.2. Uses advised against

No additional information available

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

REFINING & CHEMICALS BRANCH TOTAL PETROCHEMICALS & REFINING SA/NV

Rue de l'Industrie 52 Nijverheidsstraat - B-1040 BRUSSELS - BELGIUM

T +32 (0)2.288.91.11

rc.fer-sds@total.com - www.total.com

## 1.4. Emergency telephone number

Emergency number : Emergency call Carechem 24 International :

for English speaking countries: +44 (0) 1235 239 670
for Europe (in local languages): +33 1 49 00 00 49

• for Africa and Middle East: + 44 (0) 1235 239 671• for China:

+86 10 5100 3039

• for Asia Pacific (Hong-Kong, Singapore, Taiwan, Philippines, India, Vietnam, Sri Lanka,

Japan, Korea, Malaysia, Indonesia, Thailand):

+ 65 3158 1074

Country	Organisation/Company	Address	Emergency number	Comment
	National Poisons Emergency number		08 45 46 47	
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166 (public, 8am - 10pm, 7/7)	

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

## 2.2. Label elements

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

Child-resistant fastening : No Tactile warning : No

## 2.3. Other hazards

Adverse physicochemical, human health and environmental effects

: To our knowledge, this product does not present any particular risk, provided it is handled in

accordance with good occupational hygiene and safety practice.

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Other hazards not contributing to the classification

: Fine dust may cause irritation of respiratory system and mucous. Contact with hot material - risk of serious burns. If heated to more than 200°C, the product may form vapours or fumes which may cause irritation of respiratory tract and cause coughing and sensation of shortness of breath. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Dust may form explosive mixture in air. Combustible Dust.

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

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polystyrene	(CAS No) 9003-53-6	< 80	Not classified
High Impact Polystyrene	(CAS No) 9003-55-8	< 80	Not classified
Poly (2,6-dimethyl-1,4-phenylene) ether	(CAS No) 25134-01-4	< 40	Not classified
barium sulphate	(CAS No) 13462-86-7 (EC no) 236-664-5	0 - 35	Not classified
calcium carbonate	(CAS No) 1317-65-3	0 - 35	Not classified
phosphate (Flame retardants and fire preventing agents)		< 20	Not classified
Non brominated and non chlorinated additives (Flame retardants and fire preventing agents)		< 20	Not classified
Styrene (Impurity)	(CAS No) 100-42-5 (EC no) 202-851-5 (EC index no) 601-026-00-0	< 0.08	Not classified

Full text of H-statements: see section 16

### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

First-aid measures after inhalation : Exposure to spray, fumes and vapours produced by heated or burned product: Move to fresh air. Call a doctor.

First-aid measures after skin contact : Exposure to splashing of hot product: Treat the affected part with cold water (by spraying or immersion). Do not remove clothing adhering to the skin. In case of severe burns, seek hospital

treatment

First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. In case of irritation caused by fine dust: wash with copious volumes of water, until the irritation

disappears.

First-aid measures after ingestion : Ingestion during handling is not likely. Do not induce vomiting. Rinse mouth out with water.

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

Symptoms/injuries : Refer to § 11 for more details on effects.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : For small fire : Carbon dioxide. Dry powder. Water. For large fire : Foam.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Carbon oxides (CO, CO2). Aldehydes. Ketones. Hydrocarbons. Toluene. Alcohols. Styrene.

## 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing

Other information : Notify fire brigade and environmental authorities. Evacuate unnecessary personnel. Use water

spray to cool exposed surfaces.

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#### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Do not attempt to take action without suitable protective equipment. Gloves. Safety glasses.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : If spilled, may cause the floor to be slippery. Sweep up or vacuum up the product. Keep

recovered product for subsequent disposal. Do not allow to enter drains or water courses.

Other information : Dispose of contaminated material at an authorized site. Notify authorities if product enters

sewers or public waters.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Hygiene measures : Do not eat, drink or smoke when using this product. Keep away from food and drink.

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

Technical measures : Comply with applicable regulations. Provide local exhaust or general room ventilation.

Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Explosive atmospheres may result from the presence of flammable gas or from the evaporation of flammable liquids, such as some solvents. Such explosive atmospheres are

likely to occur, for example, above mixers in which the product is to be added.

Storage conditions : Store at room temperature. Protect from heat and direct sunlight. Store in dry, cool, well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Proper grounding procedures to avoid static electricity should be followed. Explosive vapour/air mixtures may be formed.

Packaging materials : Polyethylene. Paper bag. Stainless steel.

## 7.3. Specific end use(s)

Recommended to professional users.

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

## 8.1. Control parameters

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USA - ACGIH ACGIH TWA (mg/m³) 10 mg/m³ inhalable dust particles				
3 mg/m³ respirable dust particles				

### 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station. If handling results in dust generation or high

temperatures, local exhaust ventilation should be provided to insure that exposure to dust or decomposition products does not exceed the exposure recommended levels. Safety shower.

Eye fountain.

Personal protective equipment : Dustproof clothing. Gloves. Safety glasses. Dust formation: dust mask.

Hand protection : Protective gloves. Use insulated gloves when handling this material hot

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing. Safety foot-wear

Respiratory protection : Dust/aerosol mask with filter type P1







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

## 9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Pellet.

Colour : Opaque. Colour.

Odour : Mild.

Odour threshold : No data available pH : Not applicable Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available Flash point : No data available Auto-ignition temperature : ≈ 490 °C

Decomposition temperature : < 250 °C

Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available : 1030 - 1400 kg/m<sup>3</sup> Density Solubility : Water: Insoluble Log Pow : No data available Viscosity, kinematic : Not applicable Viscosity, dynamic : No data available Explosive properties : No data available : No data available Oxidising properties :  $0.015 \text{ kg/m}^3 (< 63 \mu\text{m})$ Explosive limits

9.2. Other information

Softening point :  $75 - 110 \,^{\circ}\text{C}$ VOC content :  $< 0.5 \,^{\circ}\text{M}$ 

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Electrostatic charges may be generated during handling. Take precautionary measures against static discharge during blending and transfer operations.

## 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

## 10.3. Possibility of hazardous reactions

Dust may form explosive mixture in air.

## 10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition. Avoid temperature above 250°C.

## 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Halogens.

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

Heated product causes burns

thermal decomposition products are produced at elevated temperatures and these may be

irritating

pH: Not applicable

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Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

Fine dust may cause irritation to ocular mucous

thermal decomposition products are produced at elevated temperatures and these may be

irritating

Heated product causes burns

pH: Not applicable

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

dust may cause irritation of respiratory system.

If heated to more than 200°C, the product may form vapours or fumes which may cause irritation of respiratory tract and cause coughing and sensation of shortness of breath

Specific target organ toxicity (repeated

exposure)

Not classified

Aspiration hazard : Not classified

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse

effects in the environment.

#### 12.2. Persistence and degradability

TOTAL POLYSTYRENE A RESISTANCE AU FEU AMELIOREE (HALOGEN FREE) (9003-53-6; 9003-55-8)			
Persistence and degradability Product persists. Not readily biodegradable.			
BOD (% of ThOD)  Below detection limit			

#### 12.3. Bioaccumulative potential

TOTAL POLYSTYRENE A RESISTANCE AU FEU AMELIOREE (HALOGEN FREE) (9003-53-6; 9003-55-8)			
Bioaccumulative potential Low bioaccumulation potential.			

## 12.4. Mobility in soil

TOTAL POLYSTYRENE A RESISTANCE AU FEU AMELIOREE (HALOGEN FREE) (9003-53-6 ; 9003-55-8)			
Ecology - soil	low mobility.		

### 12.5. Results of PBT and vPvB assessment

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Results of PBT assessment	Not required		

## 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Waste treatment methods : Dispose of in accordance with relevant local regulations. Use only registered transporters. Do

not discharge the product into the environment.

Additional information : Incinerate with household refuse in a municipal solid waste incinerator plan.

## **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID		
14.1. UN Number						
Not regulated for transport	Not regulated for transport					
14.2. UN proper shippi	ng name					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.3. Transport hazard class(es)						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		

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ADR	IMDG	IATA	ADN	RID
14.4. Packing Group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental I	nazards			
Dangerous for the environment : No	Dangerous for the environment : No Marine Pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

#### 14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea (IMDG)

No data available

- Air transport (IATA)

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

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

#### 15.1.1. **EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : < 0.5 %

#### 15.1.2. National regulations

These registration entries are for polymers only. For additives, please refer to TOTAL who will provide the necessary certification

Complies the United States TSCA (Toxic Substances Control Act) inventory

Not listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS)

Listed on the China Inventory of Existing Chemical Substances (IECSC) Listed on the Canadian DSL (Domestic Substances List)

## **Chemical safety assessment**

The substance is not classified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.

## **SECTION 16: Other information**

: Training staff on good practice. Manipulations are to be done only by qualified and authorised Training advice

persons.

Other information : Use good personal hygiene practices.

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This information applies to the PRODUCT AS SUCH and conforming to specifications of TOTAL.

In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear.

The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. However the revision of some data is in progress.

Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes.

The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive.

It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product.

It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product. (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

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