



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue:9/9/2015 Revision date:9/9/2015Supersedes:12/1/2013 Version: 11.2

SECTION 1	Identification of the subst	ance/mixture and of the co	mnany/undertaking	
	ct identifier			
Product form		Mixture		
Product name		TOTAL POLYSTYRENE CRISTAL		
CAS No		9003-53-6	–	
Type of product		Polymers		
Formula	:	(C8H8)x		
Synonyms	:	9003-53-6		
Product group	:	-		
1.2. Releva	ant identified uses of the substar	nce or mixture and uses advised	against	
1.2.1. Releva	ant identified uses			
Main use catego	,	Professional use		
Use of the subst	ance/mixture :	For more detailled information, see	e technical data sheet	
1.2.2. Uses a	advised against			
No additional inf	ormation available			
1.3. Detail	s of the supplier of the safety dat	a sheet		
	EMICALS BRANCH			
	CHEMICALS & REFINING SA/NV e 52 Nijverheidsstraat - B-1040 BR			
T +32 (0)2.288.9				
	<u>com</u> - <u>www.total.com</u>			
-	ency telephone number			
1.4. Emergency num		Emergency call Carechem 24 Inte		
		• for English speaking countries: +	-44 (0) 1235 239 670	
		 for English speaking countries: + for Europe (in local languages): - 	-44 (0) 1235 239 670 + 33 1 49 00 00 49	
		 for English speaking countries: + for Europe (in local languages): - for Africa and Middle East: + 44 (-44 (0) 1235 239 670 + 33 1 49 00 00 49	
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		 for English speaking countries: + for Europe (in local languages): - for Africa and Middle East: + 44 (+ 86 10 5100 3039 for Asia Pacific (Hong-Kong, Sing Japan, Korea, Malaysia, Indonesia) 	-44 (0) 1235 239 670 + 33 1 49 00 00 49 (0) 1235 239 671• for China: gapore, Taiwan, Philippines, I	India, Vietnam, Sri Lanka,
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	Organisation/Company	 for English speaking countries: + for Europe (in local languages): - for Africa and Middle East: + 44 (+ 86 10 5100 3039 for Asia Pacific (Hong-Kong, Sing Japan, Korea, Malaysia, Indonesia) 	44 (0) 1235 239 670 + 33 1 49 00 00 49 (0) 1235 239 671• for China: gapore, Taiwan, Philippines, I a, Thailand) : Emergency number	India, Vietnam, Sri Lanka, Comment
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Emergency num Country Ireland	Organisation/Company National Poisons Emergency number National Poisons Information Centre Beaumont Hospital	for English speaking countries: + for Europe (in local languages): - for Africa and Middle East: + 44 (+ 86 10 5100 3039 for Asia Pacific (Hong-Kong, Sing Japan, Korea, Malaysia, Indonesia + 65 3158 1074 Address PO Box 1297 Beaumont Road	 44 (0) 1235 239 670 + 33 1 49 00 00 49 (0) 1235 239 671• for China: gapore, Taiwan, Philippines, I a, Thailand) : Emergency number 08 45 46 47 +353 1 809 2166 (public, 	
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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	100	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 effe	cts, both acute and delayed
Symptoms/injuries	: Refer to § 11 for more details on effects.
4.3. Indication of any immediate medic	al 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 su	ibstance or mixture
Fire hazard	: Combustible.
Hazardous decomposition products in case of fire	: 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.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective e	quipment 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 containm	ent and cleaning up
For containment	: If spilled, may cause the floor to be slippery. Sweep up or vacuum up the product. Keep
r or containment	recovered product for subsequent disposal. Do not allow to enter drains or water courses.
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Other information	: Dispose of contaminated material at an authorized site. Notify authorities if product enters sewers or public waters.		
6.4. Reference to other se	ections		
For further information refer to se	ection 8: "Exposure controls/personal protection". For further information refer to section 13.		
SECTION 7: Handling an	d storage		
7.1. Precautions for safe I	handling		
Hygiene measures	: Do not eat, drink or smoke when using this product. Keep away from food and drink.		
7.2. Conditions for safe st	torage, 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.		

Packaging materials

7.3. Specific end use(s)

Recommended to professional users.

	SECTION 8: Exposure controls/personal protection				
8	8.1. Control parameters				
	TOTAL POLYSTYRENE CRISTAL (9003-53-6)				
	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		

Environmental exposure controls	: Avoid release to the environment.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties				
9.1. Information on basic physical and chemical properties				
Physical state	: Solid			
Appearance	: Pellet.			
Colour	: Translucent.			
Odour	: Mild.			
Odour threshold	: No data available			
рН	: 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			
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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
Density	: ≈ 1050 kg/m³
Solubility	: Water: Insoluble
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 0.015 kg/m³ (< 63 μm)
9.2. Other information	
Softening point	: 82 - 105 °C
VOC content	: < 0.5 %

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 pro	The product is stable at normal handling and storage conditions.				
10.3.	Possibility of hazardous reactions				
Dust ma	ay form explosive mixture in air.				
10.4.	Conditions to avoid				
No flam	No flames, no sparks. Eliminate all sources of ignition. Avoid temperature above 250°C.				
10.5.	Incompatible materials				
Strong a	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 informa	tion			
11.1. Information on toxicological effects	5			
Acute toxicity	:	Not classified (Based or	available data, the classification criteria are not met)	
Skin corrosion/irritation	:	Not classified (Based or	available data, the classification criteria are not met)	
	1	Heated product causes thermal decomposition p irritating	burns products are produced at elevated temperatures and these m	ay be
		pH: Not applicable		
Serious eye damage/irritation	:	Not classified (Based or	available data, the classification criteria are not met)	
	t i	Fine dust may cause irri thermal decomposition p irritating Heated product causes	products are produced at elevated temperatures and these m	ay be
	I	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		
			n of respiratory system. 00°C, the product may form vapours or fumes which may cau act and cause coughing and sensation of shortness of breath	
Specific target organ toxicity (repeated exposure)	:	Not classified		
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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 CRISTAL (9003-53-6)				
Persistence and degradability	Persistence and degradability Product persists. Not readily biodegradable.			
BOD (% of ThOD)	Below detection limit			
12.3. Bioaccumulative potential				
TOTAL POLYSTYRENE CRISTAL (9003-53-6)				
Bioaccumulative potential	Low bioaccumulation potential.			
12.4. Mobility in soil				
TOTAL POLYSTYRENE CRISTAL (9003-53-6)				
Ecology - soil	low mobility.			
12.5. Results of PBT and vPvB assessment				
TOTAL POLYSTYRENE CRISTAL (9003-53-6)				
Results of PBT assessment	Not required			
12.6. Other adverse effects				
le additional information available				

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						
14.2. UN proper shipping 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		
14.4. Packing Group						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards						
Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the		
environment : No	environment : No	environment : No	environment : No	environment : No		
	Marine Pollutant : 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

10/7/2015



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

- Inland waterway transport

No data available

- Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

SECTION 15: Regulatory information

15.1. 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 %

National regulations 15.1.2.

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 15.2.

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 advice

Other information

- : Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.
- : Use good personal hygiene practices.

SDS EU (REACH Annex II)

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

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 the responsibility of the bendlers of the product to pass on to any subsequent persons who will come into contact with the product. (usage, storage, cleaning of contact persons who will come into contact with the product (usage, storage, cleaning of contact persons) 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.