



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

1.1. Product ion Product form Product name CAS No Type of product Type of product Formula Synonyms Product group 1.2. Relevant 1.2.1. Relevant Main use category Use of the substance 1.2.2. Use of the substance 1.2.2. I.2.1. Relevant Main use category Use of the substance 1.2.2. I.2.2. Uses advi No additional inform 1.3. Details of REFINING & CHEM TOTAL PETROCHE Rue de l'Industrie 52 T +32 (0)2.288.91.1 rc.fer-sds@total.com	lentifier	JSSELS - BELGIUM Emergency call Carechem 24 Inte • for English speaking countries: -	AL against ee technical data sheet ernational :		
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Emergency number		 for English speaking countries: - 			
			144 (0) 4005 000 670		
		• 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, Sir 	ngapore, Taiwan, Philippines, Ir	ndia, Vietnam, Sri Lanka,	
		Japan, Korea, Malaysia, Indonesi			
		+ 65 3158 1074		-	
Country	Organisation/Company National Poisons Emergency	Address	Emergency number 08 45 46 47	Comment	
	number		00 45 40 47		
Ireland	National Poisons Information	PO Box 1297	+353 1 809 2166 (public,		
	Centre	Beaumont Road 9 Dublin	8am - 10pm, 7/7)		
	Beaumont Hospital				
SECTION 2: Ha	zards identification				
2.1. Classifica	tion of the substance or mixtu	ire			
Classification acco	rding to Regulation (EC) No. 1	272/2008 [CLP]			
Not classified					
2.2. Label elei	nents				
Labelling accordin	to Regulation (EC) No. 1272/	2008 [CLP]			
Child-resistant faste	ing :	No			
		No			
		NO			
	5				
Tactile warning	:				
Tactile warning 2.3. Other haz Adverse physicoche	ards nical, human health and :	To our knowledge, this product do			
Content Content 2.3. Other haz Adverse physicoche Adverse physicoche environmental effect Content	ards nical, human health and :	To our knowledge, this product do accordance with good occupation	nal hygiene and safety practice.		
Content ing 2.3. Other haz Adverse physicoche environmental effect Other hazards not compared	ards nical, human health and : s intributing to the :	To our knowledge, this product do accordance with good occupation Fine dust may cause irritation of r	nal hygiene and safety practice. respiratory system and mucous	Contact with hot material -	
Cathle warning Conternation Conternation Adverse physicoche environmental effect Other hazards not conternation	ards nical, human health and : s intributing to the :	To our knowledge, this product do accordance with good occupation Fine dust may cause irritation of r risk of serious burns. If heated to	nal hygiene and safety practice. respiratory system and mucous more than 200°C, the product	Contact with hot material - may form vapours or fumes	
Tactile warning 2.3. Other haz Adverse physicoche	ards nical, human health and : s intributing to the :	To our knowledge, this product do accordance with good occupation Fine dust may cause irritation of r	nal hygiene and safety practice. respiratory system and mucous more than 200°C, the product	 Contact with hot material - may form vapours or fumes ng and sensation of shortness 	



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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 effects, both acute and delayed				
Symptoms/injuries	: Refer to § 11 for more details on effects.			
4.3. Indication of any immediate medica	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	isures			
6.1. Personal precautions, protective ed	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 recovered product for subsequent disposal. Do not allow to enter drains or water courses.			
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Otheri	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 fur	ther information refer to section 8:	"Exposure controls/personal protection". For further information refer to section 13.
SEC	FION 7: Handling and stor	age
7.1.	Precautions for safe handlin	g
Hygier	ne 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
Techni	ical 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.
Storag	e 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

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/m ³ inhalable dust particles 3 mg/m ³ respirable dust particles		

: Polyethylene. Paper bag. Stainless steel.

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			
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			
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	e ()
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 product is stable at normal handling and storage conditions.					
10.3.	Possibility of hazardous reactions				
Dust ma	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.	0.5. 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 information	SECTION 11: Toxicological information			
11.1. Information on toxicological effects	5			
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	1	
		pH: Not applicable		
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	ł	
		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		
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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 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				

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

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- 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

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- : 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.

EN (English)

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.