



TOTAL EXPANDABLE POLYSTYRENE SELF EXTINGUISHING GRADE

Safety Data Sheet

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

Date of issue: 7/7/2019 Supersedes: 9/9/2017 Version: 2.6

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

1.1. Product identifier

Product form : Mixture
Product name : TOTAL EXPANDABLE POLYSTYRENE SELF EXTINGUISHING GRADE
CAS-No. : 9003-53-6
Type of product : Polymers
Formula : (C8H8)_x
Synonyms : 9003-53-6
Product group : -

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

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : For more detailed 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
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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:
+ 86 512 8090 3042
• 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
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Emergency number		08 45 46 47	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

In use may form flammable/explosive vapour-air mixture. some components may be dangerous for aquatic or terrestrial life.

2.2. Label elements

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

Signal word (CLP) : Warning
Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P243 - Take precautionary measures against static discharge.
P403+P235 - Store in a well-ventilated place. Keep cool.



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EUH-statements : EUH018 - In use may form flammable/explosive vapour-air mixture.

2.3. Other hazards

Other hazards not contributing to the classification : Fine dust may cause irritation of respiratory system and mucous. Contact with hot material - prevent 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. Electrostatic charges may be generated during handling. dust may form an explosive mixture with air, ignited by sparks or sources of ignition.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polystyrene	(CAS-No.) 9003-53-6	> 85	Not classified
Additive		< 9	Not classified
n-pentane	(CAS-No.) 109-66-0 (EC-No.) 203-692-4	< 4.8	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Isopentane	(CAS-No.) 78-78-4 (EC-No.) 201-142-8	< 1.2	Flam. Liq. 1, H224 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

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/effects : 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

Fire hazard : In use, may form flammable/explosive vapour-air mixture.

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.

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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 : Explosive vapour/air mixtures may be formed. "Guidelines for Transport and Storage of Expandable - www.plasticseurope.org". store at ambient temperature and at atmospheric pressure in original packaging (plastic or cardboard boxes) or in silo made of appropriate material (aluminium, stainless steel, ...). 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. Store in dry, cool, well-ventilated area.

Special rules on packaging : three pallets must never be stacked. under normal storage conditions, and following good working practices, two pallets may be stacked on flooring in sound condition. however, when the pictorial "Do not stack" is affixed to the pallet, the pallet must never be placed either on top of or below another pallet.
N.B. :here the term pallet includes both the pallet and its load. when pallets are stored in racks, it should be checked whether the pallet is fit for stacking in the concerned racks.

Packaging materials : Polyethylene. Stainless steel.

7.3. Specific end use(s)

Recommended to professional users.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

TOTAL EXPANDABLE POLYSTYRENE SELF EXTINGUISHING GRADE (9003-53-6)		
USA - ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ inhalable dust particles 3 mg/m ³ respirable dust particles
n-pentane (109-66-0)		
EU	IOELV TWA (mg/m ³)	3000 mg/m ³
EU	IOELV TWA (ppm)	1000 ppm
Ireland	OEL (8 hours ref) (mg/m ³)	3000 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	1000 ppm
Ireland	OEL (15 min ref) (mg/m ³)	2250 mg/m ³
Ireland	OEL (15 min ref) (ppm)	750 ppm
United Kingdom	WEL TWA (mg/m ³)	1800 mg/m ³
United Kingdom	WEL TWA (ppm)	600 ppm
United Kingdom	WEL STEL (mg/m ³)	5400 mg/m ³ (calculated)
United Kingdom	WEL STEL (ppm)	1800 ppm (calculated)
USA - ACGIH	ACGIH TWA (ppm)	1000 ppm



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2-methylbutane (78-78-4)		
EU	IOELV TWA (mg/m ³)	3000 mg/m ³
EU	IOELV TWA (ppm)	1000 ppm
Ireland	OEL (8 hours ref) (mg/m ³)	3000 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	1000 ppm
Ireland	OEL (15 min ref) (mg/m ³)	2250 mg/m ³
Ireland	OEL (15 min ref) (ppm)	750 ppm
United Kingdom	WEL TWA (mg/m ³)	1800 mg/m ³
United Kingdom	WEL TWA (ppm)	600 ppm
United Kingdom	WEL STEL (mg/m ³)	5400 mg/m ³ (calculated)
United Kingdom	WEL STEL (ppm)	1800 ppm (calculated)
USA - ACGIH	ACGIH TWA (ppm)	1000 ppm

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

Personal protective equipment symbol(s):



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. White. 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	: -50 °C pentane



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Auto-ignition temperature	: 285 °C pentane
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/m ³
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	: 1.3 - 7.8 vol % pentane
Lower explosive limit (LEL)	: 0.015 kg/m ³ (< 63 µm)

9.2. Other information

VOC content : < 5.6 %

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. In use may form flammable/explosive vapour-air mixture.

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 (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

n-pentane (109-66-0)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	3000 mg/kg
LC50 inhalation rat	364 mg/l/4h
2-methylbutane (78-78-4)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	3000 mg/kg
LC50 inhalation rat	280 mg/l/4h
LC50 inhalation rat (ppm)	> 4094 ppmv/4h

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Additional information	: Heated product causes burns thermal decomposition products are produced at elevated temperatures and these may be irritating
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable

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Additional information	: 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
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
Additional information	: 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 May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified

n-pentane (109-66-0)	
NOAEC (inhalation, rat, gas, 90 days)	6660 ppmv/6h/day
NOAEC (inhalation, rat, vapour, 90 days)	20 mg/l/6h/day

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: because of its structure, the product should not be dangerous for aquatic life. some components may be dangerous for aquatic or terrestrial life.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

n-pentane (109-66-0)	
LC50 fish 1	9.87 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
LC50 fish 2	4.6 mg/l (n-pentane, 96h)
EC50 Daphnia 1	9.74 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	7.5 mg/l (algae, growth rate, n-pentane, 72-hour)
EC50 other aquatic organisms 2	10.7 mg/l (algae, biomass, n-pentane, 72-hour)

2-methylbutane (78-78-4)	
LC50 fish 1	4.26 mg/l
EC50 Daphnia 1	2.3 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	7.5 mg/l
EC50 other aquatic organisms 2	10.7 mg/l

12.2. Persistence and degradability

TOTAL EXPANDABLE POLYSTYRENE SELF EXTINGUISHING GRADE (9003-53-6)	
Persistence and degradability	Product persists. Not readily biodegradable.
BOD (% of ThOD)	Below detection limit

n-pentane (109-66-0)	
Persistence and degradability	Readily biodegradable.

2-methylbutane (78-78-4)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

TOTAL EXPANDABLE POLYSTYRENE SELF EXTINGUISHING GRADE (9003-53-6)	
Bioaccumulative potential	Low bioaccumulation potential.

n-pentane (109-66-0)	
BCF fish 1	25 - 81 (n-pentane, isopentane & cyclopentane min/max)
Log Pow	3.39
Log Kow	3.39

2-methylbutane (78-78-4)	
BCF fish 1	25 - 81
Log Pow	3.2 - 3.3

8/7/2019

EN (English)

SDS Reference number: PSTY-029

6/10



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2-methylbutane (78-78-4)	
Log Kow	2.72

12.4. Mobility in soil

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Ecology - soil	low mobility.

2-methylbutane (78-78-4)	
Log Koc	1.78 (estimated value)

12.5. Results of PBT and vPvB assessment

TOTAL EXPANDABLE POLYSTYRENE SELF EXTINGUISHING GRADE (9003-53-6)	
Results of PBT assessment	Not required

12.6. Other adverse effects

No additional information available

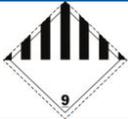
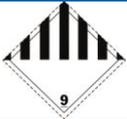
SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of in accordance with relevant local regulations. Do not discharge the product into the environment.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN Number				
2211	2211	2211	2211	2211
14.2. UN proper shipping name				
POLYMERIC BEADS, EXPANDABLE	POLYMERIC BEADS, EXPANDABLE	Polymeric beads, expandable	POLYMERIC BEADS, EXPANDABLE	POLYMERIC BEADS, EXPANDABLE
Transport document description				
UN 2211 POLYMERIC BEADS, EXPANDABLE, 9, III, (D/E)	UN 2211 POLYMERIC BEADS, EXPANDABLE, 9, III	UN 2211 Polymeric beads, expandable, 9, III	UN 2211 POLYMERIC BEADS, EXPANDABLE, 9, III	UN 2211 POLYMERIC BEADS, EXPANDABLE, 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
Not applicable			Not applicable	Not applicable
14.4. Packing Group				
III	III	III	III	III
14.5. Environmental hazards				
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				



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14.6. Special precautions for user

Special transport precautions : According to dangerous goods transport legislations, ADR (road transport), RID (rail transport), IMDG (maritime transport), EPS is classified in class of danger "9", labeled as UN 2211 "Polymeric beads expandable, evolving flammable vapours", it belongs to the "product group III" for the packaging requirements; the octabins are designed in accordance to "IBC08 type 11G" specifications and are labeled accordingly. For road domestic transport, it is recommended that closed containers of boxes are avoided. Tilt trailers and curtain side trailers are recommended since ventilation is good. Load must be properly secured within the trailer (ADR refers to the European union recommendations). For ADR, the tunnel codes are D/E, two orange placards are required (one in front and one on the back of the vehicle), for groupage it is forbidden to mix EPS with the products of class 1 (explosive substances) nor with food and transshipments are not recommended (cfr ADR 1.4.3 requirements). For rail any type of wagon with side doors can be used. Checks to ensure adequate ventilation are recommended. Special attention should be paid to secure the goods inside the wagons and to avoid damage to the packaging. Fixed sections are helpful since the forces (eg. shunting) in rail transport can be much greater than those in road transport. Refer to RID for signals and other restrictions. For sea, closed deep sea containers are not allowed for UN 2211 (cfr IMDG SP965), deep sea containers must be either ventilated, open-top or "in one door off operation". In case of ventilated containers, the inlets and the outlets should extend along the full length of the container. The ventilation area at the bottom or roof of the container should cover a minimum of 500 cm² for a 20 foot container and 1000 cm² for a 40 foot container. At each access point, a warning including the words "CAUTION – MAY CONTAIN FLAMMABLE VAPOUR" should appear in lettering 25mm high. The sign shall remain on the cargo transport until it has been completely ventilated to remove any hazardous concentration of vapour or gas, and until the immediate vicinity of the cargo transport unit is clear of any source of ignition, and until the goods have been unloaded. A DGD (dangerous declaration form) must be issued to the forwarding agent so that the shipping line takes adequate stowing measures. A CPC (container packaging certificate) must be issued at container loading. Four placards n°9 and UN 2211 must be applied on the 4 sides of the container or of the semi-trailer (Guidelines for Transport and Storage of Expandable - www.plasticseurope.org)

- Overland transport

Classification code (ADR) : M3
Special provisions (ADR) : 382, 633
Limited quantities (ADR) : 5kg
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P002, IBC08, R001
Special packing provisions (ADR) : PP14, B3, B6
Mixed packing provisions (ADR) : MP10
Portable tank and bulk container instructions (ADR) : T1
Portable tank and bulk container special provisions (ADR) : TP33
Tank code (ADR) : SGAN
Tank special provisions (ADR) : TE20
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Bulk (ADR) : VC1, VC2, AP2
Special provisions for carriage - Loading, unloading and handling (ADR) : CV36
Hazard identification number (Kemler No.) : 90
Orange plates :



Tunnel restriction code (ADR) : D/E
EAC code : 2Y

- Transport by sea (IMDG)

Special provisions (IMDG) : 207, 965
Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P002
Special packing provisions (IMDG) : PP14



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IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3, B6
Tank instructions (IMDG)	: T1, BK2
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-I
Stowage category (IMDG)	: E
Stowage and handling (IMDG)	: SW1, SW6
Segregation (IMDG)	: SG5, SG14

- Air transport (IATA)

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: 957
PCA max net quantity (IATA)	: 100kg
CAO packing instructions (IATA)	: 957
CAO max net quantity (IATA)	: 200kg
ERG code (IATA)	: 9L

- Inland waterway transport

Classification code (ADN)	: M3
Special provisions (ADN)	: 207, 633
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: B
Equipment required (ADN)	: PP, EX, EP, A
Ventilation (ADN)	: VE01, VE03
Provisions for inspection of holds during carriage (ADN)	: IN01
Number of blue cones/lights (ADN)	: 0

- Rail transport

Classification code (RID)	: M3
Special provisions (RID)	: 207, 633
Limited quantities (RID)	: 5kg
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, R001
Special packing provisions (RID)	: PP14, B3, B6
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAN
Special provisions for RID tanks (RID)	: TE20
Transport category (RID)	: 3
Special provisions for carriage – Bulk (RID)	: VC1, VC2, AP2
Special provisions for carriage - Loading, unloading and handling (RID)	: CW31
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 90

14.7. Transport in bulk according to Annex II of Marpol 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



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Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

VOC content : < 5.6 %

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)

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 1	Flammable liquids, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
EUH018	In use may form flammable/explosive vapour-air mixture.

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 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.

