

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

### 1.1. Product identifier

|                               |                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------|
| Product form                  | : Mixture                                                                                       |
| Product name                  | : POLYSTYRENE CHOC                                                                              |
| CAS-No.                       | : 9003-55-8                                                                                     |
| Type of product               | : Polymers                                                                                      |
| Formula (Override)            | : (C <sub>8</sub> H <sub>8</sub> ) <sub>x</sub> - (C <sub>4</sub> H <sub>6</sub> ) <sub>y</sub> |
| Product group                 | : -                                                                                             |
| Other means of identification | : 9003-55-8                                                                                     |

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

#### 1.2.1. Relevant identified uses

|                              |                                                                                                                                                        |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| ---                          |                                                                                                                                                        |
| Main use category            | : Industrial use                                                                                                                                       |
| Use of the substance/mixture | : For more detailed information, see technical data sheet<br>( <a href="https://polymers.totalenergies.com/">https://polymers.totalenergies.com/</a> ) |

#### 1.2.2. Uses advised against

No additional information available

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

TotalEnergies  
Branche Raffinage & Chimie  
2 Place Jean Millier  
92078 PARIS LA DEFENSE  
FRANCE  
T +33 (0)1.41.35.40.00  
[rc.fer-sds@totalenergies.com](mailto:rc.fer-sds@totalenergies.com), [www.totalenergies.com](http://www.totalenergies.com)

### 1.4. Emergency telephone number

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emergency number | : Emergency call Carechem 24 International : <ul style="list-style-type: none"><li>• for English speaking countries: +44 (0) 1235 239 670</li><li>• for Europe (in local languages): + 33 1 49 00 00 49</li><li>• for Africa and Middle East: + 44 (0) 1235 239 671</li><li>• for China: 400 120 6011</li><li>• for Asia Pacific (Hong-Kong, China; Singapore; Taiwan, China; Philippines; India; Vietnam; Sri Lanka; Japan; Korea; Malaysia; Indonesia; Thailand) : + 65 3158 1074</li></ul> |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 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

No additional information available

### 2.2. Label elements

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

No labelling applicable

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 2.3. Other hazards

Other hazards which do not result in 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. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Dust may form explosive mixture in air. Combustible Dust.

PBT/vPvB Not classified

Based on available data, the classification criteria are not met

ED HH / ED ENV Not classified

Based on available data, the classification criteria are not met

## 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] |
|-------------------------|--------------------|--------|-----------------------------------------------------------------|
| High Impact Polystyrene | CAS-No.: 9003-55-8 | < 100  | Not classified                                                  |
| Polybutadiene           | -                  | 2 – 10 | Not classified                                                  |
| Additive                | -                  |        | Not classified                                                  |

## 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 : In case of irritation caused by fine dust: wash with copious volumes of water, until the irritation disappears. Obtain medical attention if irritation persists.

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 section 11 for more details on effects.

Symptoms/effects after inhalation : Dust from this product may cause respiratory irritation.

Symptoms/effects after skin contact : Contact with hot material - prevent serious burns.

Symptoms/effects after eye contact : Dust from this product may cause eye irritation.

### 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.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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

Fire hazard : Combustible.  
Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>). 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 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. Dust may form explosive mixture in air. Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.  
Storage conditions : Explosive vapour/air mixtures may be formed. 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. Paper bag. Carton. Stainless steel.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 7.3. Specific end use(s)

Industrial uses.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| POLYSTYRENE CHOC (9003-55-8)               |                                                                        |
|--------------------------------------------|------------------------------------------------------------------------|
| USA - ACGIH - Occupational Exposure Limits |                                                                        |
| ACGIH® TLV® TWA                            | 10 mg/m³ inhalable dust particles<br>3 mg/m³ respirable dust particles |
| Remark (ACGIH®)                            | Particulates, not otherwise classified                                 |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering 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.

#### 8.2.2. Personal protection equipment

##### Personal protective equipment:

Dustproof clothing. Gloves. Safety glasses. Dust formation: dust mask.

##### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

##### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing. Safety foot-wear

##### Hand protection:

Protective gloves

##### 8.2.2.3. Respiratory protection

##### Respiratory protection:

Dust/aerosol mask with filter type P1

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### 8.2.2.4. Thermal hazards

#### Thermal hazard protection:

Insulated gloves.

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Assure that emissions are compliant with all applicable air pollution control regulations. 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                                                                                                                                                                                                                       |
| Colour                                          | : White. Colour.                                                                                                                                                                                                              |
| Appearance                                      | : Synthetic polymer microparticles. The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council. |
| Odour                                           | : Mild.                                                                                                                                                                                                                       |
| Odour threshold                                 | : Not available                                                                                                                                                                                                               |
| Melting point                                   | : Not available                                                                                                                                                                                                               |
| Freezing point                                  | : Not available                                                                                                                                                                                                               |
| Softening point                                 | : 76 – 102 °C                                                                                                                                                                                                                 |
| Initial boiling point and boiling range         | : Not available                                                                                                                                                                                                               |
| Flammability                                    | : Not available                                                                                                                                                                                                               |
| Explosive limits                                | : Not applicable                                                                                                                                                                                                              |
| Lower explosion limit                           | : 0,015 kg/m <sup>3</sup> ( < 63 µm )                                                                                                                                                                                         |
| Upper explosion limit                           | : Not applicable                                                                                                                                                                                                              |
| Flash point                                     | : Not applicable                                                                                                                                                                                                              |
| Auto-ignition temperature                       | : ≈ 490 °C                                                                                                                                                                                                                    |
| Decomposition temperature                       | : Not available                                                                                                                                                                                                               |
| pH                                              | : Not applicable                                                                                                                                                                                                              |
| pH solution                                     | : Not available                                                                                                                                                                                                               |
| Viscosity, kinematic                            | : Not applicable                                                                                                                                                                                                              |
| Solubility                                      | : Water: Insoluble                                                                                                                                                                                                            |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                                                                                                                                                                                                               |
| Vapour pressure                                 | : Not available                                                                                                                                                                                                               |
| Vapour pressure at 50°C                         | : Not available                                                                                                                                                                                                               |
| Density                                         | : 1030 – 1060 kg/m <sup>3</sup>                                                                                                                                                                                               |
| Relative density                                | : Not available                                                                                                                                                                                                               |
| Relative vapour density at 20°C                 | : Not applicable                                                                                                                                                                                                              |
| Particle size                                   | : ≈ 5 mm                                                                                                                                                                                                                      |
| Particle size distribution                      | : Not available                                                                                                                                                                                                               |
| Particle shape                                  | : Pellet                                                                                                                                                                                                                      |
| Particle aspect ratio                           | : Not available                                                                                                                                                                                                               |
| Particle aggregation state                      | : Not aggregated                                                                                                                                                                                                              |
| Particle agglomeration state                    | : Not available                                                                                                                                                                                                               |
| Particle specific surface area                  | : Not available                                                                                                                                                                                                               |
| Particle dustiness                              | : Not available                                                                                                                                                                                                               |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

VOC content : < 0,5 %

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 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 hazard classes as defined in Regulation (EC) No 1272/2008

|                                   |                                                                                                                                                                             |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity (oral)             | : Not classified                                                                                                                                                            |
| Acute toxicity (dermal)           | : Not classified                                                                                                                                                            |
| Acute toxicity (inhalation)       | : Not classified                                                                                                                                                            |
| Skin corrosion/irritation         | : Not classified                                                                                                                                                            |
| Additional information            | pH: Not applicable                                                                                                                                                          |
|                                   | : Heated product causes burns<br>Thermal decomposition products are produced at elevated temperatures and these may be irritating                                           |
| Serious eye damage/irritation     | : Not classified                                                                                                                                                            |
| Additional information            | pH: Not applicable                                                                                                                                                          |
|                                   | : 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 |
| STOT-repeated exposure            | : Not classified                                                                                                                                                            |
| Aspiration hazard                 | : Not classified                                                                                                                                                            |

#### POLYSTYRENE CHOC (9003-55-8)

|                      |                |
|----------------------|----------------|
| Viscosity, kinematic | Not applicable |
|----------------------|----------------|

#### 11.2. Information on other hazards

##### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : ED HH Not classified, Based on available data, the classification criteria are not met

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### 11.2.2. Other information

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                           |                                                                                                                                                                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : Do not allow product to spread into the environment. Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified                                                                                                                                                                                             |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified                                                                                                                                                                                             |

### 12.2. Persistence and degradability

| POLYSTYRENE CHOC (9003-55-8)  |                                              |
|-------------------------------|----------------------------------------------|
| Persistence and degradability | Product persists. Not readily biodegradable. |
| BOD (% of ThOD)               | Below detection limit                        |

### 12.3. Bioaccumulative potential

| POLYSTYRENE CHOC (9003-55-8) |                                |
|------------------------------|--------------------------------|
| Bioaccumulative potential    | Low bioaccumulation potential. |

### 12.4. Mobility in soil

| POLYSTYRENE CHOC (9003-55-8) |               |
|------------------------------|---------------|
| Ecology - soil               | low mobility. |

### 12.5. Results of PBT and vPvB assessment

| POLYSTYRENE CHOC (9003-55-8)                                     |  |
|------------------------------------------------------------------|--|
| PBT/vPvB Not classified                                          |  |
| Based on available data, the classification criteria are not met |  |

### 12.6. Endocrine disrupting properties

|                                                                              |                                                                                           |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Adverse effects on the environment caused by endocrine disrupting properties | : ED ENV Not classified, Based on available data, the classification criteria are not met |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|

### 12.7. Other adverse effects

|                       |                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------|
| Other adverse effects | : PMT/vPvM Not classified, Based on available data, the classification criteria are not met |
|-----------------------|---------------------------------------------------------------------------------------------|

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                         |                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment methods | : Dispose of in accordance with relevant local regulations. Recycle the material as far as possible. Do not discharge the product into the environment. |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 14: Transport information

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

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| ADR                                    | IMDG                                                      | IATA                              | ADN                               | RID                               |
|----------------------------------------|-----------------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| 14.1. UN number or ID number           |                                                           |                                   |                                   |                                   |
| Not applicable                         | Not applicable                                            | Not applicable                    | Not applicable                    | Not applicable                    |
| 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                    |
| 14.4. Packing Group                    |                                                           |                                   |                                   |                                   |
| Not applicable                         | Not applicable                                            | Not applicable                    | Not applicable                    | Not applicable                    |
| 14.5. Environmental hazards            |                                                           |                                   |                                   |                                   |
| Dangerous for the environment: No      | Dangerous for the environment: No<br>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

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

**EU-Regulations**

Other information, restriction and prohibition regulations

: The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council. This SPM benefits from derogation paragraph 4, point (a) mentioned in annex of Commission regulation (EU) 2023/2055: synthetic polymer microparticles for use at industrial sites . During use and disposal, appropriate measures must be taken in accordance with Entry 78, paragraphs 7 and 8, of Annex XVII of REACH to prevent the release of synthetic polymer microparticles into the environment. Concentration of synthetic polymer microparticles of the polymeric substance: > 90%. Generic identity of the polymer. Polymers of styrene.

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### REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) |                  |
|----------------------------------------|------------------|
| Reference code                         | Applicable on    |
| 78.                                    | POLYSTYRENE CHOC |

### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

### 15.1.2. National regulations

These registration entries are for polymers only. For additives, please refer to TOTALENERGIES 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 introduction on Australian Industrial Chemicals Introduction Scheme (AICIS 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)

Listed on or are exempt from listing on the Taiwan TCSI (Taiwan Chemical Substances Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the EU NLP (No Longer Polymers) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

### Germany

| Air Quality Control (TA Luft) |       |               |            |                |                         |
|-------------------------------|-------|---------------|------------|----------------|-------------------------|
| Category                      | Class | Applicable on | Local name | Max. mass flow | Max. mass concentration |

### 15.2. 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

| Indication of changes |              |        |          |
|-----------------------|--------------|--------|----------|
| Section               | Changed item | Change | Comments |
| 2.3                   |              |        |          |
| 11.2.                 |              |        |          |
| 12.5                  |              |        |          |
| 12.6                  |              |        |          |
| 12.7                  |              |        |          |
| 15.1                  |              |        |          |

| Abbreviations and acronyms: |                                                                                                 |
|-----------------------------|-------------------------------------------------------------------------------------------------|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |

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| Abbreviations and acronyms: |                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------|
| IATA                        | International Air Transport Association                                                           |
| IMDG                        | International Maritime Dangerous Goods                                                            |
| DNEL                        | Derived-No Effect Level                                                                           |
| PNEC                        | Predicted No-Effect Concentration                                                                 |
| CAS-No.                     | Chemical Abstracts Service number                                                                 |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| EC-No.                      | European Community number                                                                         |
| PBT                         | Persistent Bioaccumulative Toxic                                                                  |
| REACH                       | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| OEL                         | Occupational Exposure Limit                                                                       |
| vPvB                        | Very Persistent and Very Bioaccumulative                                                          |
| WGK                         | Water Hazard Class                                                                                |

Safety Data Sheet (SDS), EU, R

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

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.