



TOTAL POLYPROPYLENE RANDOM COPOLYMER Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue:10/10/2015 Revision date:10/10/2015 Supersedes:9/1/2014

Version: 11.2

| SECTION 1: | Identification of the substa | nce/mixture and of the co | npany/undertaking | |
|---|---|---|--|---------------------------------------|
| | uct identifier | | | |
| Product form | : | Mixture | | |
| Product name | : ` | TOTAL POLYPROPYLENE RAND | OM COPOLYMER | |
| CAS No | : * | 9010-79-1 | | |
| ype of product | : | Polymers | | |
| ormula | : | (C3H6)x - (C2H4)y | | |
| Synonyms | : * | 9010-79-1 ; PPR | | |
| Product group | : • | - | | |
| Other means of | identification : | POLYPROPYLENE RANDOM COR | POLYMER - PPR | |
| .2. Relev | ant identified uses of the substand | ce or mixture and uses advised a | gainst | |
| .2.1. Relev | ant identified uses | | | |
| /lain use catego | | Professional use | | |
| Jse of the subs | | For more detailled information, see | tashninal data shast | |
| | | For more detailed miorination, see | | |
| .2.2. Uses | advised against | | | |
| lo additional in | formation available | | | |
| .3. Detai | Is of the supplier of the safety data | sheet | | |
| | HEMICALS BRANCH | | | |
| | l.com - <u>www.total.com</u> gency telephone number | | | |
| | | for English speaking countries: +4 for Europe (in local languages): + for Africa and Middle East: + 44 (0 + 86 10 5100 3039 for Asia Pacific (Hong-Kong, Sing Japan, Korea, Malaysia, Indonesia, + 65 3158 1074 | 33 1 49 00 00 49)) 1235 239 671• for China: apore, Taiwan, Philippines, I | ndia, Vietnam, Sri Lanka, |
| Country | Organisation/Company | Address | Emergency number | Comment |
| oountry | National Poisons Emergency | | 08 45 46 47 | |
| | number | | | |
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| FCTION 2 | Hazards identification | | | - |
| | ification of the substance or mixtu | | | |
| | | | | |
| 2.1. Class | seconding to Demulation (EQ) No. 4 | | | |
| 2.1. Class | according to Regulation (EC) No. 1 | | | |
| .1. Class | according to Regulation (EC) No. 1 | | | |
| 2.1. Class | according to Regulation (EC) No. 1 | | | |
| .1. Class | | | | |
| 2.1. Class Classification a Not classified 2.2. Label | elements | 272/2008 [CLP] | | |
| L1. Class Classification a Not classified | | 272/2008 [CLP] | | |
| L1. Classification Classification a Alot classified Not classified Alot classified L2. Label Labelling acco | elements rding to Regulation (EC) No. 1272/2 | 272/2008 [CLP] | | |
| .1. Classification Classification Classified Iot classified Classified .2. Label Clabelling acco Child-resistant f | elements rding to Regulation (EC) No. 1272/ astening | 272/2008 [CLP] 2008 [CLP] | | |
| L1. Classification Classification a Classified Not classified Classified L2. Label Labelling acco Child-resistant f | elements rding to Regulation (EC) No. 1272/ astening | 272/2008 [CLP] 2008 [CLP] No | | |
| .1. Class classification a classified lot classified classified .2. Label abelling acco child-resistant f actile warning classified .3. Other | elements rding to Regulation (EC) No. 1272/ astening : : : hazards | 272/2008 [CLP] 2008 [CLP] No No | | |
| .1. Class classification a lot classified .2. Label abelling acco child-resistant f actile warning .3. Other dverse physica | elements rding to Regulation (EC) No. 1272/ astening : : : : : : : : | 272/2008 [CLP] 2008 [CLP] No | s not present any particular hygiene and safety practice | isk, provided it is handled in |
| Classification Classification Classified Not classified 2.2. Label Labelling acco Child-resistant f Cactile warning 2.3. Other | elements rding to Regulation (EC) No. 1272/ astening : hazards pochemical, human health and : | 272/2008 [CLP] 2008 [CLP] No No | s not present any particular hygiene and safety practice SDS Reference number: PPF | · · · · · · · · · · · · · · · · · · · |



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Other hazards not contributing to the classification : Fine dust may cause irritation of respiratory system and mucous. Contact with hot material - risk of serious burns. If heated to more than 160°C, the product may form vapours or fumes which may cause irritation of respiratory tract and cause coughing and sensation of shortness of breath. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Dust may form explosive mixture in air. Combustible Dust.

| SECTION 3: Composition/information on ingredients | | | |
|---|-----------|--|--|
| 3.1. | Substance | | |
| Not app | blicable | | |

3.2. Mixture

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-------------------------------|--------------------|------|---|
| Propene, polymer with Ethene. | (CAS No) 9010-79-1 | > 98 | Not classified |
| Additive | | < 2 | Not classified |

Full text of H-statements: see section 16

| SECTION 4: First aid measures | |
|--|--|
| 4.1. Description of first aid measures | |
| First-aid measures after inhalation | : Exposure to spray, fumes and vapours produced by heated or burned product: Move to fresh air. Call a doctor. |
| First-aid measures after skin contact | : Exposure to splashing of hot product: Treat the affected part with cold water (by spraying or immersion). Do not remove clothing adhering to the skin. In case of severe burns, seek hospital treatment. |
| First-aid measures after eye contact | Immediately rinse with water for a prolonged period while holding the eyelids wide open. In case of irritation caused by fine dust: wash with copious volumes of water, until the irritation disappears. |
| First-aid measures after ingestion | : Ingestion during handling is not likely. Do not induce vomiting. Rinse mouth out with water. |
| 4.2. Most important symptoms and effe | cts, both acute and delayed |
| Symptoms/injuries | : Refer to § 11 for more details on effects. |
| 4.3. Indication of any immediate medica | I 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 | bstance or mixture |
| Fire hazard | : Combustible. |
| Hazardous decomposition products in case of fire | : Carbon oxides (CO, CO2). Aldehydes. Ketones. Acetone. Acetaldehyde. Formaldehyde. Hydrocarbons. acrylaldehyde; acrolein; prop-2-enal. |
| 5.3. Advice for firefighters | |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| Other information | : Notify fire brigade and environmental authorities. Evacuate unnecessary personnel. Use water spray to cool exposed surfaces. |
| SECTION 6: Accidental release mea | sures |
| 6.1. Personal precautions, protective ed | uipment 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. |

: Use personal protective equipment as required.

6.1.2. For emergency responders Protective equipment

6.2. Environmental precautions

Avoid release to the environment.

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| 6.3. | Methods and material for containme | ent and cleaning up |
|-----------|------------------------------------|---|
| For conta | ainment | : 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. On water, recover/skim from surface and pour out in disposal container. |
| Other inf | ormation | : 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, includ | ing 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. |
| Storage conditions | Store at room temperature. Protect from heat and direct sunlight. Store in dry, cool, well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Proper grounding procedures to avoid static electricity should be followed. |
| Packaging materials | : Polyethylene. Paper bag. Stainless steel. |
| 7.3. Specific end use(s) | |
| Decommonded to professional upor | |

Recommended to professional users.

| SE | SECTION 8: Exposure controls/personal protection | | | |
|------|--|-------------------|--|--|
| 8.1. | Control parameters | | | |
| тс | TOTAL POLYPROPYLENE RANDOM COPOLYMER (9010-79-1) | | | |
| US | A - ACGIH | ACGIH TWA (mg/m³) | 10 mg/m ³ inhalable dust particles 3 mg/m ³ respirable dust particles | |

| 8.2. Exposure controls | | | |
|----------------------------------|--|--|--|
| 6.2. Exposure controis | | | |
| 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. White. | | | |
| Odour | : Odourless. | | | |
| Odour threshold | : No data available | | | |
| рН | : Not applicable | | | |
| Relative evaporation rate (butylacetate=1) | : No data available | | | |
| Melting point | : 130 - 150 °C | | | |
| Freezing point | : No data available | | | |
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| Boiling point | : No data available |
|----------------------------------|-----------------------------|
| Flash point | : ≈ 350 °C |
| Auto-ignition temperature | : > 380 °C |
| Decomposition temperature | : No data available |
| 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 | : 905 kg/m³ |
| Solubility | : Water: < 1 mg/l 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 | : 0.02 kg/m³ (< 63 μm) |
| 9.2. Other information | |
| | |

VOC content

: < 0.3 %

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 300°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 | tio | n |
|--|-----|--|
| 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 |
| | | 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 |
| | | 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 160°C, the product may form vapours or fumes which may cause irritation of respiratory tract and cause coughing and sensation of shortness of breath |
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| Specific target organ toxicity (repeated exposure) | : Not classified |
|--|------------------|
| Aspiration hazard | : Not classified |

| SECTION 12: Ecological information | | | | | |
|------------------------------------|-------------|--|--|--|--|
| 12.1. | Toxicity | | | | |
| Ecology | / - general | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. | | | |

| 12.2. Persistence and degradability | | | | | | | |
|--|--|--|--|--|--|--|--|
| TOTAL POLYPROPYLENE RANDOM COPOLYMER (9010-79-1) | | | | | | | |
| Persistence and degradability | Product persists. Not readily biodegradable. | | | | | | |
| BOD (% of ThOD) | Below detection limit | | | | | | |
| 2.3. Bioaccumulative potential | | | | | | | |
| TOTAL POLYPROPYLENE RANDOM COPOLYMER (9010-79-1) | | | | | | | |
| Bioaccumulative potential | Low bioaccumulation potential. | | | | | | |
| 12.4. Mobility in soil | | | | | | | |
| TOTAL POLYPROPYLENE RANDOM COPOLYMER (9010-79-1) | | | | | | | |
| Ecology - soil | low mobility. | | | | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | |
| TOTAL POLYPROPYLENE RANDOM COPOLYMER (9010-79-1) | | | | | | | |
| Results of PBT assessment | Not required | | | | | | |
| 2.6. Other adverse effects | | | | | | | |
| No additional information available | | | | | | | |
| SECTION 13: Disposal considerations | | | | | | | |

Waste treatment methods

13.1. 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

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- Air transport (IATA)

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 14.7.

Not applicable

SECTION 15: Regulatory information

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

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 : < 0.3 %

15.1.2. **National regulations**

These registration entries are for polymers only. For additives, please refer to TOTAL who will provide the necessary certification Not listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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

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)

Listed on NZIoC (New Zealand Inventory of Chemicals)

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

Training advice

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

Other information

: Use good personal hygiene practices.

SDS EU (REACH Annex II)

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

In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. However the revision of some data is in progress.

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

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.