

# POLYMER GRADE PROPYLENE (99.5%)

## Safety Data Sheet

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

Date of issue: 3/3/2017

Revision date:

Supersedes: 9/9/2015 Version: 13.4

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

#### 1.1. Product identifier

Product form : Substance  
 Substance name : POLYMER GRADE PROPYLENE (99.5%)  
 EC no : 204-062-1  
 CAS No : 115-07-1  
 REACH registration No : Total Olefins Antwerp (01-2119447103-50-0040) - Naphtachimie (01-2119447103-50-0048) - TP France Carling (01-2119447103-50-0043) - TP France UGO (01-2119447103-50-0043) - Total Petrochemicals & Refining (01-2119447103-50-0049) - Total Research & Technology Feluy (01-2119447103-50-0055) - TP Development (01-2119447103-50-0149)  
 Type of product : Extremely flammable gas  
 Synonyms : 115-07-1  
 Product group : -

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

##### 1.2.1. Relevant identified uses

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Main use category : Professional use  
 Use of the substance/mixture :  
 Manufacture of substances  
 Distribution of substance  
 Formulation & (re)packing of substances and mixtures  
 Synthesis intermediate  
 Polymer production  
 Functional Fluids  
 Use in laboratories  
 Combustible  
 Use as a fuel

##### 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  
 T +32 (0)2.288.91.11  
[rc.fer-sds@total.com](mailto:rc.fer-sds@total.com) - [www.total.com](http://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 10 5100 3039  
 • 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 |
|---------|----------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------|---------|
|         | National Poisons Emergency number                        |                                          | 08 45 46 47                                                     |         |
| Ireland | National Poisons Information Centre<br>Beaumont Hospital | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>+353 1 809 2166<br>(public, 8am - 10pm, 7/7) |         |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Flammable gases, Category 1 H220

Gases under pressure : Compressed gas H280

Full text of H statements : see section 16

3/10/2017

EN (English)

SDS Reference number: ATOF-003

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### Adverse physicochemical, human health and environmental effects

In high concentrations vapours cause anaesthetic and narcotic effect. Contact with the liquefied gas may cause frostbite. Extremely flammable gas. Take precautionary measures against static discharge during blending and transfer operations. In use may form flammable/explosive vapour-air mixture. The vapours are denser than air and may travel along the ground. Distance ignition possible.

### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Hazard statements (CLP)

Precautionary statements (CLP)

- : Danger
- : H220 - Extremely flammable gas  
H280 - Contains gas under pressure; may explode if heated
- : P201 - Obtain special instructions before use  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P243 - Take precautionary measures against static discharge  
P273 - Avoid release to the environment  
P281 - Use personal protective equipment as required  
P309+P311 - IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician  
P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely  
P381 - Eliminate all ignition sources if safe to do so  
P410+P403 - Protect from sunlight. Store in a well-ventilated place

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

- Name : POLYMER GRADE PROPYLENE (99.5%)
- CAS No : 115-07-1
- EC no : 204-062-1

| Name      | Product identifier                                                   | %    | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------|----------------------------------------------------------------------|------|-----------------------------------------------------------------|
| Propylene | (CAS No) 115-07-1<br>(EC no) 204-062-1<br>(EC index no) 601-011-00-9 | > 99 | Flam. Gas 1, H220<br>Press. Gas                                 |
| Propane   | (CAS No) 74-98-6<br>(EC no) 200-827-9<br>(EC index no) 601-003-00-5  | < 1  | Flam. Gas 1, H220<br>Press. Gas                                 |

Full text of H-statements: see section 16

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Get medical advice/attention if you feel unwell.
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a doctor. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration. Place under medical observation.
- First-aid measures after skin contact : Wash skin with plenty of water. Remove/Take off immediately all contaminated clothing. In the event of contact with the liquid: treat resulting frostbite as a burn. Do not remove clothing adhering to the skin. In case of severe burns, seek hospital treatment.
- First-aid measures after eye contact : Do not wear contact lenses. Rinse immediately with plenty of water. Consult an eye specialist.
- First-aid measures after ingestion : Ingestion during handling is not likely. If necessary seek medical advice.

### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Refer to § 11 for more details on effects.



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|                                      |                                                                                                                                                                  |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/injuries after inhalation   | : In case of inhalation of high concentrations : Dizziness, headaches, nausea. Drowsiness. Unconsciousness. anoxia (asphyxia). May cause respiratory irritation. |
| Symptoms/injuries after skin contact | : Contact with the product may cause cold burns or frostbite.                                                                                                    |
| Symptoms/injuries after eye contact  | : Direct contact with the liquefied gas may cause severe and possibly permanent eye injury due to frostbite from rapid liquid evaporation. Eye irritation.       |

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |                                                                      |
|--------------------------------|----------------------------------------------------------------------|
| Suitable extinguishing media   | : Carbon dioxide. Dry powder. 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                                      | : Extremely flammable gas.                                                                                  |
| Hazardous decomposition products in case of fire | : Thermal decomposition generates : Toxic fumes. Carbon oxides (CO, CO2). Hydrocarbons. Aldehydes. Ketones. |

### 5.3. Advice for firefighters

|                                |                                                                                                                                                                                                                                                                    |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautionary measures fire    | : Remove all sources of ignition. The vapours are denser than air and may travel along the ground. Distance ignition possible. Heat may cause pressure rise with explosion of tanks/drums. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.                                                                                                                           |
| Other information              | : Notify fire brigade and environmental authorities. Evacuate unnecessary personnel. Use water spray or fog for cooling exposed containers.                                                                                                                        |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|                  |                                                                                                                                                             |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General measures | : Evacuate unnecessary personnel. Use special care to avoid static electric charges. Do not smoke. No flames, no sparks. Eliminate all sources of ignition. |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.1.1. For non-emergency personnel

|                                                  |                                                                                       |
|--------------------------------------------------|---------------------------------------------------------------------------------------|
| Emergency procedures for non-emergency personnel | : Only qualified personnel equipped with suitable protective equipment may intervene. |
|--------------------------------------------------|---------------------------------------------------------------------------------------|

#### 6.1.2. For emergency responders

|                      |                                                                        |
|----------------------|------------------------------------------------------------------------|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. |
|----------------------|------------------------------------------------------------------------|

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

|                         |                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Stop leak without risks if possible. The vapours are denser than air and may travel along the ground. Distance ignition possible. |
| Methods for cleaning up | : Product evaporates when in contact with the air.                                                                                  |

### 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

|                               |                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Prevent shock/impact. In use, may form flammable/explosive vapour-air mixture. Provide good ventilation in process area to prevent formation of vapour. Use only outdoors or in a well-ventilated area. Take precautionary measures against static discharge during blending and transfer operations. Explosion-free electrical equipment and lighting with earth. |
| Hygiene measures              | : Keep away from food and drink. Always wash hands after handling the product. Do not eat, drink or smoke when using this product.                                                                                                                                                                                                                                   |

### 7.2. Conditions for safe storage, including any incompatibilities

|                            |                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage conditions         | : Keep away from ignition sources. Proper grounding procedures to avoid static electricity should be followed. Explosive vapour/air mixtures may be formed. Containers (tanks) should be grounded and provided with adequate pressure relief valve. Store in a well-ventilated place. Keep container tightly closed. Protect from heat and direct sunlight. |
| Incompatible materials     | : Strong oxidizing agents. Strong acids. Bases.                                                                                                                                                                                                                                                                                                             |
| Special rules on packaging | : Keep only in original container.                                                                                                                                                                                                                                                                                                                          |
| Packaging materials        | : Stainless steel.                                                                                                                                                                                                                                                                                                                                          |



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### 7.3. Specific end use(s)

Recommended to professional users.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Propylene (115-07-1) |                         |          |
|----------------------|-------------------------|----------|
| Ireland              | OEL (8 hours ref) (ppm) | 500 ppm  |
| USA - ACGIH          | ACGIH TWA (ppm)         | 500 ppm  |
| Propane (74-98-6)    |                         |          |
| Ireland              | OEL (8 hours ref) (ppm) | 1000 ppm |

### 8.2. Exposure controls

|                                  |                                                                                                                                                                                                                                                            |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | : The substance is classified as extremely flammable and therefore the following conditions must be met to ensure safe use: "Risks are controlled by storage and use under conditions which avoid all ignition sources."<br>. Safety shower. Eye fountain. |
| Hand protection                  | : cold-insulating gloves                                                                                                                                                                                                                                   |
| Eye protection                   | : Do not wear contact lenses. Safety glasses                                                                                                                                                                                                               |
| Skin and body protection         | : Wear suitable protective clothing. Safety foot-wear                                                                                                                                                                                                      |
| Respiratory protection           | : Ensure good ventilation of the work station. In case of insufficient ventilation, wear suitable respiratory equipment                                                                                                                                    |



|                                 |                                                                                                                   |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Environmental exposure controls | : Avoid release to the environment.                                                                               |
| Other information               | : Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                            |                                                                                          |
|--------------------------------------------|------------------------------------------------------------------------------------------|
| Physical state                             | : Gas                                                                                    |
| Appearance                                 | : Gases under pressure. Pressurized liquefied gas.                                       |
| Molecular mass                             | : 42 g/mol                                                                               |
| Colour                                     | : Colourless.                                                                            |
| Odour                                      | : Odourless. Faint hydrocarbon.                                                          |
| Odour threshold                            | : No data available                                                                      |
| pH                                         | : No data available                                                                      |
| Relative evaporation rate (butylacetate=1) | : No data available                                                                      |
| Melting point                              | : -185 °C                                                                                |
| Freezing point                             | : No data available                                                                      |
| Boiling point                              | : -48 °C                                                                                 |
| Flash point                                | : No data available                                                                      |
| Auto-ignition temperature                  | : 485 °C                                                                                 |
| Decomposition temperature                  | : No data available                                                                      |
| Flammability (solid, gas)                  | : Extremely flammable gas                                                                |
| Vapour pressure                            | : > 1000 hPa                                                                             |
| Relative vapour density at 20 °C           | : No data available                                                                      |
| Relative density                           | : No data available                                                                      |
| Solubility                                 | : Soluble in aromatic hydrocarbons. Soluble in most organic solvents.<br>Water: 200 mg/l |
| Log Pow                                    | : 1.77                                                                                   |
| Viscosity, kinematic                       | : No data available                                                                      |
| Viscosity, dynamic                         | : No data available                                                                      |

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|                      |                           |
|----------------------|---------------------------|
| Explosive properties | : No data available       |
| Oxidising properties | : No data available       |
| Explosive limits     | : 1.8 vol %<br>11.2 vol % |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable gas.

10.2. Chemical stability

Spontaneous polymerisation.

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition. Avoid the build-up of electrostatic charge.

10.5. Incompatible materials

Strong oxidizing agents. Acids. Bases.

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                                     | : Not classified (Based on available data, the classification criteria are not met)                                                         |
| Additional information                             | : Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness |
| Skin corrosion/irritation                          | : Not classified (Based on available data, the classification criteria are not met)                                                         |
| Additional information                             | : Contact with the product may cause cold burns or frostbite                                                                                |
| Serious eye damage/irritation                      | : Not classified (Based on available data, the classification criteria are not met)                                                         |
| Additional information                             | : May cause eye irritation                                                                                                                  |
| Respiratory or skin sensitisation                  | : Not classified (Based on available data, the classification criteria are not met)                                                         |
| Germ cell mutagenicity                             | : Not classified                                                                                                                            |
| Carcinogenicity                                    | : Not classified                                                                                                                            |
| Reproductive toxicity                              | : Not classified                                                                                                                            |
| Specific target organ toxicity (single exposure)   | : Not classified                                                                                                                            |
| Additional information                             | : May cause drowsiness or dizziness                                                                                                         |
| Specific target organ toxicity (repeated exposure) | : Not classified                                                                                                                            |
| Aspiration hazard                                  | : Not classified (Based on available data, the classification criteria are not met)                                                         |

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Do not allow product to spread into the environment.

| Propylene (115-07-1)           |                      |
|--------------------------------|----------------------|
| LC50 fish 1                    | 51.7 mg/l            |
| LC50 other aquatic organisms 1 | 28.2 mg/l (daphnid)  |
| EC50 other aquatic organisms 1 | 12.1 mg/l (algae)    |
| Propane (74-98-6)              |                      |
| LC50 fish 1                    | 49.9 mg/l            |
| LC50 other aquatic organisms 1 | 27.14 mg/l (daphnid) |
| EC50 other aquatic organisms 1 | 11.89 mg/l (algae)   |

12.2. Persistence and degradability

| POLYMER GRADE PROPYLENE (99.5%) (115-07-1) |                                                                                                   |
|--------------------------------------------|---------------------------------------------------------------------------------------------------|
| Persistence and degradability              | Inherently biodegradable. Product is expected to undergo degradation in the presence of sunlight. |



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|                                            |                                                                                             |
|--------------------------------------------|---------------------------------------------------------------------------------------------|
| 12.3. Bioaccumulative potential            |                                                                                             |
| POLYMER GRADE PROPYLENE (99.5%) (115-07-1) |                                                                                             |
| Log Pow                                    | 1.77                                                                                        |
| Bioaccumulative potential                  | Low bioaccumulation potential.                                                              |
| Propylene (115-07-1)                       |                                                                                             |
| Log Pow                                    | <= 2.8                                                                                      |
| Propane (74-98-6)                          |                                                                                             |
| Log Pow                                    | 2.3                                                                                         |
| Log Kow                                    | 2.36                                                                                        |
| 12.4. Mobility in soil                     |                                                                                             |
| POLYMER GRADE PROPYLENE (99.5%) (115-07-1) |                                                                                             |
| Ecology - soil                             | because of its high volatility, the product is unlikely to cause ground or water pollution. |
| Propane (74-98-6)                          |                                                                                             |
| Log Koc                                    | 1.34 (estimated value)                                                                      |
| 12.5. Results of PBT and vPvB assessment   |                                                                                             |
| No additional information available        |                                                                                             |
| 12.6. Other adverse effects                |                                                                                             |
| No additional information available        |                                                                                             |

SECTION 13: Disposal considerations

|                               |                                                                                                                                                                                                                                                                          |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13.1. Waste treatment methods |                                                                                                                                                                                                                                                                          |
| Regional legislation (waste)  | : Disposal must be done according to official regulations.                                                                                                                                                                                                               |
| Waste treatment methods       | : Do not discharge the product into the environment. Hazardous waste. Dispose of in accordance with relevant local regulations. Use only registered transporters. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. |
| Additional information        | : Handle empty containers with care because residual vapours are flammable. Flammable vapours may accumulate in the container.                                                                                                                                           |

SECTION 14: Transport information

|                                                                                    |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| In accordance with ADR / RID / IMDG / IATA / ADN                                   |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| ADR                                                                                | IMDG                                                                                | IATA                                                                                | ADN                                                                                  | RID                                                                                   |
| 14.1. UN Number                                                                    |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| 1077                                                                               | 1077                                                                                | 1077                                                                                | 1077                                                                                 | 1077                                                                                  |
| 14.2. UN proper shipping name                                                      |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| PROPYLENE                                                                          | PROPYLENE                                                                           | Propylene                                                                           | PROPYLENE                                                                            | PROPYLENE                                                                             |
| Transport document description                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| UN 1077 PROPYLENE, 2.1, (B/D)                                                      | UN 1077 PROPYLENE, 2.1                                                              | UN 1077 Propylene, 2.1                                                              | UN 1077 PROPYLENE, 2.1                                                               | UN 1077 PROPYLENE, 2.1                                                                |
| 14.3. Transport hazard class(es)                                                   |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| 2.1                                                                                | 2.1                                                                                 | 2.1                                                                                 | 2.1                                                                                  | 2.1                                                                                   |
|  |  |  |  |  |
| 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               |        |
| Classification code (ADR)          | : 2F   |
| Limited quantities (ADR)           | : 0    |
| Excepted quantities (ADR)          | : E0   |
| Packing instructions (ADR)         | : P200 |
| Mixed packing provisions (ADR)     | : MP9  |



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|                                                                         |                   |
|-------------------------------------------------------------------------|-------------------|
| Portable tank and bulk container instructions (ADR)                     | : (M), T50        |
| Tank code (ADR)                                                         | : PxBN(M)         |
| Tank special provisions (ADR)                                           | : TA4, TT9        |
| Vehicle for tank carriage                                               | : FL              |
| Transport category (ADR)                                                | : 2               |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV9, CV10, CV36 |
| Special provisions for carriage - Operation (ADR)                       | : S2, S20         |
| Hazard identification number (Kemler No.)                               | : 23              |
| Orange plates                                                           | :                 |



|                               |       |
|-------------------------------|-------|
| Tunnel restriction code (ADR) | : B/D |
| EAC code                      | : 2YE |

### - Transport by sea (IMDG)

|                             |        |
|-----------------------------|--------|
| Limited quantities (IMDG)   | : 0    |
| Excepted quantities (IMDG)  | : E0   |
| Packing instructions (IMDG) | : P200 |
| Tank instructions (IMDG)    | : T50  |
| EmS-No. (Fire)              | : F-D  |
| EmS-No. (Spillage)          | : S-U  |
| Stowage category (IMDG)     | : E    |

### - Air transport (IATA)

|                                              |             |
|----------------------------------------------|-------------|
| PCA Excepted quantities (IATA)               | : E0        |
| PCA Limited quantities (IATA)                | : Forbidden |
| PCA limited quantity max net quantity (IATA) | : Forbidden |
| PCA packing instructions (IATA)              | : Forbidden |
| PCA max net quantity (IATA)                  | : Forbidden |
| CAO packing instructions (IATA)              | : 200       |
| CAO max net quantity (IATA)                  | : 150kg     |
| Special provisions (IATA)                    | : A1        |
| ERG code (IATA)                              | : 10L       |

### - Inland waterway transport

|                                   |             |
|-----------------------------------|-------------|
| Classification code (ADN)         | : 2F        |
| Limited quantities (ADN)          | : 0         |
| Excepted quantities (ADN)         | : E0        |
| Carriage permitted (ADN)          | : T         |
| Equipment required (ADN)          | : PP, EX, A |
| Ventilation (ADN)                 | : VE01      |
| Number of blue cones/lights (ADN) | : 1         |

### - Rail transport

|                                                                         |                             |
|-------------------------------------------------------------------------|-----------------------------|
| Classification code (RID)                                               | : 2F                        |
| Limited quantities (RID)                                                | : 0                         |
| Excepted quantities (RID)                                               | : E0                        |
| Packing instructions (RID)                                              | : P200                      |
| Mixed packing provisions (RID)                                          | : MP9                       |
| Portable tank and bulk container instructions (RID)                     | : T50(M)                    |
| Tank codes for RID tanks (RID)                                          | : PxBN(M)                   |
| Special provisions for RID tanks (RID)                                  | : TU38, TE22, TA4, TT9, TM6 |
| Transport category (RID)                                                | : 2                         |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW9, CW10, CW36           |
| Colis express (express parcels) (RID)                                   | : CE3                       |



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Hazard identification number (RID) : 23

**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**

No REACH Annex XVII restrictions  
POLYMER GRADE PROPYLENE (99.5%) is not on the REACH Candidate List  
POLYMER GRADE PROPYLENE (99.5%) is not on the REACH Annex XIV List

**15.1.2. National regulations**

Complies the United States TSCA (Toxic Substances Control Act) inventory  
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 Canadian DSL (Domestic Substances List)  
Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS)  
Listed on the China Inventory of Existing Chemical Substances (IECSC)  
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.

Other information : Use good personal hygiene practices.

Full text of H- and EUH-statements:

|                |                                                    |
|----------------|----------------------------------------------------|
| Compressed gas | Gases under pressure : Compressed gas              |
| Flam. Gas 1    | Flammable gases, Category 1                        |
| Press. Gas     | Gases under pressure                               |
| H220           | Extremely flammable gas                            |
| H280           | Contains gas under pressure; may explode if heated |

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.*