



# Material Safety Data Sheet

## Polypropylene

### 1 Chemical product and company identification

|                      |   |                             |   |
|----------------------|---|-----------------------------|---|
| <b>Common name</b>   | : Polypropylene   | <b>Code</b>                 | :   |
| <b>Supplier</b>      | : Sasol Polymers<br>Polypropylene Business<br>P.O. Box 2525<br>Randburg<br>2125<br>Tel: +27 11 790 1111<br>Fax: +27 11 790 1079   | <b>MSDS#</b>                | :   |
| <b>Synonym</b>       | : Propylene polymer, propene polymer.   | <b>Validation date</b>      | : 8 June 2004   |
| <b>Trade name</b>    | : Polypropylene   | <b>Print date</b>           | : 8 June 2004   |
| <b>Material uses</b> | :   | <b>Prepared by</b>          | : Kgomotso Pule   |
| <b>Manufacturer</b>  | : Sasol Polymers<br>P.O. Box 1928<br>Secunda<br>2302<br>Republic of South Africa.<br>Tel: +27 17 611 2201<br>Fax: +27 17 639 1280 | <b>In case of emergency</b> | : SOUTH AFRICA: 0800 11 28 90<br>INTERNATIONAL: +27 17 610 4444 |

### 2 Composition / information on ingredients

Substance/preparation : Substance

| Chemical name*  | CAS No.   | %   | EC number | Classification |
|---|-----------|-----|-----------|----------------|
| Europe<br>Polypropylene<br>See section 16 for the full text of the R Phrases declared above | 9003-07-0 | 100 |           | Not available. |

\* Occupational exposure limit(s), if available, are listed in section 8

### 3 Hazards identification

The substance is not classified as dangerous according to Directive 67/548/EEC and its amendments.

**Classification** : Not classified as a dangerous substance.

**Additional hazards** : No additional remark.

**Effects and symptoms** : No known effects.

**Aggravating conditions** : No additional remark.

See toxicological Information (section 11)

## 4 First-aid measures

### First-aid measures

- Inhalation** : If dust is inhaled, remove to fresh air. Get medical attention if irritation occurs.
- Ingestion** : NO known EFFECT according to our database.
- Skin contact** : If molten material comes into contact with skin, cool under ice water or running water. Treat as a thermal burn.
- Eye contact** : No known effect on eye contact, rinse with water for a few minutes.

**Notes to physician** : Support respiratory and cardiovascular function.

**Protection of first-aiders** : No additional remark.

## 5 Fire-fighting measures

### Extinguishing Media

**Suitable** : SMALL FIRE: Use DRY chemical powder.  
LARGE FIRE: Use water spray or fog.

**Not suitable** : No additional remark.

**Special fire-fighting procedures** : No additional remark.

**Hazardous thermal decomposition products** : Emits toxic fumes of carbon oxides (CO, CO<sub>2</sub>), acrolein, and formaldehyde under fire conditions.

**Protection of fire-fighters** : Full suit. Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

**Unusual fire/explosion hazards** : No additional remark.

## 6 Accidental release measures

**Personal precautions** : Pellets present slippery conditions.

**Environmental precautions and clean-up methods** : Contain material to prevent contamination of soil, surface water and ground water. Use a shovel to put the material into a convenient waste disposal container.

**Note:** see section 8 for personal protective equipment and section 13 for waste disposal.

## 7 Handling and storage

**Handling** : Do not breathe dust.

**Storage** : Store in a dry place, below 50°C. Keep away from acids, oxidizing agents and flammable substances.

### Packaging materials

**Recommended use** : Use original container.

## 8 Exposure controls/personal protection

**Engineering measures** : Use process enclosures, local exhaust ventilation, or other engineering controls to keep dust below recommended exposure limits. If user operations generate dust, use ventilation to keep exposure to dust below the exposure limit.

**Occupational exposure limits** :

| Ingredient name | Occupational exposure limits |
|-----------------|------------------------------|
| Polypropylene   | 10 mg/m <sup>3</sup> (DUST)  |

### Personal protective equipment

**Respiratory system** : Dust respirator.

**Skin and body** : Overalls.

**Hands** : Gloves. (Wear thermal resistance gloves when working with hot or molten polymer.)

**Eyes** : Goggles if there is a potential for exposure to particles.



## 9 Physical and chemical properties

|   |   |
|---|---|
| <b>Physical state</b>                       | : Solid. (Pellets)  |
| <b>Color</b>                                | : Translucent to white. (Light.)  |
| <b>Odor</b>                                 | : Waxy odour. (Slight.)   |
| <b>Odor threshold</b>                       | : No data available.  |
| <b>Boiling point</b>                        | : No data available.  |
| <b>Melting point</b>                        | : 130 - 165°C (266 - 338°F)   |
| <b>Density</b>                              | : 0.88 - 0.92g/cm <sup>3</sup>  |
| <b>Vapor density</b>                        | : No data available.  |
| <b>Vapor pressure</b>                       | : No data available.  |
| <b>Evaporation rate (butyl acetate = 1)</b> | : Not applicable (solid).   |
| <b>Solubility</b>                           | : Insoluble in water. (To dissolve requires chlorinated solvents at elevated temperature) |
| <b>Octanol/water partition coefficient</b>  | : No data available.  |
| <b>pH</b>                                   | : Not applicable.   |
| <b>Flash point</b>                          | : Open cup: >350°C (662°F).   |
| <b>Auto-ignition temperature</b>            | : >390°C (734°F)  |
| <b>Explosion limits</b>                     | : No data available.  |
| <b>Viscosity</b>                            | : No data available.  |

## 10 Stability and reactivity

|   |  |
|---|--|
| <b>Stability</b>                        | : No data available.   |
| <b>Conditions to avoid</b>              | : No additional remark.  |
| <b>Materials to avoid</b>               | : Chlorine, fluorine and other strong oxidizers (e.g. potassium permanganate).                                 |
| <b>Hazardous Decomposition Products</b> | : Emits toxic fumes of carbon oxides (CO, CO <sub>2</sub> ), acrolein, and formaldehyde under fire conditions. |
| <b>Hazardous polymerization</b>         | : Will not occur.  |

## 11 Toxicological information

### Potential acute health effects

|                        |   |
|------------------------|---|
| <b>Eyes</b>            | : No known significant effects or critical hazards. |
| <b>Skin</b>            | : No known significant effects or critical hazards. |
| <b>Inhalation</b>      | : No known significant effects or critical hazards. |
| <b>Ingestion</b>       | : No known significant effects or critical hazards. |
| <b>Routes of Entry</b> | : Inhalation. Ingestion.                            |
| <b>Target organs</b>   | : No data available.                                |
| <b>Acute toxicity</b>  | :   |

| <u>Ingredient name</u> | <u>Test</u> | <u>Result</u> | <u>Route</u> | <u>Species</u> |
|------------------------|-------------|---------------|--------------|----------------|
|                        |             |               |              |                |

**Special remarks on toxicity to animals** : No additional remark.

**Specific effects** :

## Polypropylene

|                        |                             |                          |                               |                          |
|------------------------|-----------------------------|--------------------------|-------------------------------|--------------------------|
| <u>Ingredient name</u> | <u>Carcinogenic effects</u> | <u>Mutagenic effects</u> | <u>Developmental toxicity</u> | <u>Impairs fertility</u> |
|                        |                             |                          |                               |                          |

**Special remarks on chronic effects on humans** : No additional remark.

**Special remarks on other toxic effects on humans** : No additional remark.

## 12 Ecological information

### Ecotoxicity Data :

|                        |                |               |               |
|------------------------|----------------|---------------|---------------|
| <u>Ingredient name</u> | <u>Species</u> | <u>Period</u> | <u>Result</u> |
|                        |                |               |               |

**Mobility** : No data available.

**Soil/water partition coefficient (K<sub>OC</sub>)** : No data available.

**Persistence/degradability** : No appreciable biodegradation is expected.

**Bioaccumulative potential** : No bioconcentration expected due to high molecular mass.





| <u>Ingredient name</u> | <u>Persistence/degradability</u> |            |             |                          |                   |                         | <u>Bioaccumulative potential</u> |            |                  |
|------------------------|----------------------------------|------------|-------------|--------------------------|-------------------|-------------------------|----------------------------------|------------|------------------|
|                        | <u>BOD<sub>5</sub></u>           | <u>COD</u> | <u>ThOD</u> | <u>Aquatic half-life</u> | <u>Photolysis</u> | <u>Biodegradability</u> | <u>LogP<sub>ow</sub></u>         | <u>BCF</u> | <u>Potential</u> |
|                        |                                  |            |             |                          |                   |                         |                                  |            |                  |

## 13 Disposal considerations

**Methods of disposal** : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## 14 Transport information

### International transport regulations

| <u>Regulatory Information</u> | <u>UN number</u> | <u>Proper shipping name</u> | <u>Class</u>                         | <u>Packing group</u> | <u>Label</u>   | <u>Additional information</u> |
|-------------------------------|------------------|-----------------------------|--------------------------------------|----------------------|--|-------------------------------|
| <b>ADR/RID Class</b>          | Not regulated.   | Not applicable.             | Not controlled under ADR of the EEC. |                      |  |                               |
| <b>ADN Class</b>              | Not regulated.   | Not applicable.             | Not controlled under ADN (Europe).   |                      |  |                               |
| <b>IMDG Class</b>             | Not regulated.   | Not applicable.             | Not controlled under IMDG.           |                      |  |                               |
| <b>IATA-DGR Class</b>         | Not regulated.   | Not applicable.             | Not controlled under IATA.           |                      |  |                               |

## 15 Regulatory information

### EU Regulations

**Hazard symbol(s)** :

### Indication of Danger

**Risk phrases** : Not classified according to EU.

**Date of issue** : 6/8/2004.

**Page:** 4/5

## Polypropylene

|                       |  |
|-----------------------|--|
| <b>Safety phrases</b> | : Not classified according to EU.  |
| <b>Contains</b>       | :  |
| <b>Product use</b>    | : Classification and labeling have been performed according to EU directives 67/548/EEC, 1999/45/EC including amendments and the intended use.<br>- Consumer applications. |

## 16 Other information

**Full text of R-Phrases appearing in Section 2** : Not classified according to EU.

**Text of classifications appearing in Section 2** : Not classified according to EU.

**Other special considerations** : No additional remark.

### History

**Date of printing** : 8 June 2004

**Date of issue** : 8 June 2004

**Date of previous Issue** : No Previous Validation.

**Prepared by** :

### Notice to reader

*This MSDS summarises at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product, and in particular how to safely handle, use, store and transport the product. Since SASOL and its subsidiaries cannot anticipate or control the conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review this MSDS in the context of how the user intends to handle, use, store or transport the product in the workplace and beyond, and communicate such information to all relevant parties. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.*

*We shall not assume any liability for the accuracy or completeness of the information contained herein or any advice given unless there has been gross negligence on our part. In such event our liability shall be limited only to direct damages suffered. Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request. All risk associated with the possession and application of the product passes on delivery.*

Version

Page: 5/5