
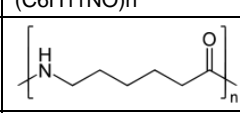


<b>SAFETY DATA SHEET</b>		<b>PR/EOHD/OHS/F-310</b>	
<b>PRODUCT NAME : POLYAMIDE 6</b>			بترو رابغ Petro Rabigh
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking


<b>1.1 Product Identifier</b>	
<b>Product Name:</b>	Polyamide 6
<b>Other/Generic Names:</b>	PA 6, Nylon 6, Polycaprolactam, Poly[imino(1-oxo-1,6-hexanediy)]
<b>Grades:</b>	S2400, S2700, S3200 F32, P27Z, P24Z
<b>REACH Registration Number:</b>	Not applicable
<b>EC Number:</b>	Not available
<b>CAS Number:</b>	25038-54-4
<b>Molecular formula:</b>	(C <sub>6</sub> H <sub>11</sub> NO) <sub>n</sub>
<b>Molecular Structure (typical):</b>	
<b>Molecular weight range:</b>	Not applicable

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

<b>IDENTIFIED USES:</b> Final product
<b>MOST COMMON TECHNICAL FUNCTION OF SUBSTANCE (WHAT IT DOES):</b> No data is available
<b>USES BY CONSUMERS ADVISED AGAINST</b> No data is available

### 1.3 Manufacturer or supplier's details

<b>Manufacturer</b>	Rabigh Refining and Petrochemical Company		
<b>Address</b>	<b>PLANT</b> PO Box 101, Rabigh 21911, Kingdom of Saudi Arabia  Tel: +966 12 425 0390 Free Number: 800 440 9000		
<b>E-mail address of person responsible for this SDS</b>	<a href="mailto:stephane.dallaire@petrorabigh.com">stephane.dallaire@petrorabigh.com</a>		
<b>Emergency telephone numbers (24-hour)</b>	Asia Pacific (except China):	CareChem 24 +65 3158 1074	English, Cantonese, Indonesian, Japanese, Korean, Malay, Mandarin, Thai, Vietnamese
	China (Off-land):	CareChem 24 +86 512 8090 3042	English, Mandarin
	US, Canada: Outside above area:	ChemTrec 1-800-424-9300 +703-527-3887	English
	Europe, America, Middle East, Africa (Europe & English Speaking):	CareChem 24 +44 (0) 1235 239 670	English, Albanian, Bulgarian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Serb-Croat, Slovak, Spanish, Swedish, Turkish, Ukrainian
	Middle East & Africa (Arabic speaking):	CareChem 24 +44 (0) 1235 239 671	English, Arabic, French

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## SECTION 2: Hazards Identification

<b>2.1 Classification of the substance or mixture</b>	
Product Definition:	Polyamide 6
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]:	Not classified. Under normal conditions of use, the material is not expected to create unusual emergency hazards.
Classification according to Directive 67/548/EEC [DSD]:	Not Classified.
<b>2.2 Label elements</b>	
Hazard pictograms (Labelling according Regulation (EC) No 1272/2008):	Not applicable
Signal word:	Not applicable
Hazard statements:	Not applicable
<b>Precautionary statements</b>	
Prevention:	Not applicable
Response:	Not applicable
Storage:	Not applicable
Disposal:	Not applicable
Supplemental label elements:	Not applicable
<b>Special packaging requirements</b>	
Containers to be fitted with child-resistant fastenings:	Not applicable
Tactile warning of danger:	Not applicable
<b>2.3 Other hazards</b>	
Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII:	Not applicable
Substance meets the criteria for vpvB according to Regulation (EC) No. 1907/2006, Annex XIII:	Not applicable
Other hazards which do not result in classification:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

<b>3.1 Classification of the substance or mixture</b>					
Substance/mixture			Polyamide 6		
Product/ ingredient name	Identifiers	%	Classification		
			Directive 1999/45/EC	Regulation (EC) No. 1272/2008 [CLP/GHS]	Type
Polyamide 6	EC: Not available CAS: 25038-54-4 Index: Not available	100%	Not classified	Not classified	[A]


There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

### Type

[A] Constituent; [B] Impurity; [C] Stabilizing additive; Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

<b>4.1 Description of first aid measures</b>	
Eye contact	Dust may cause mechanical irritation of the eyes. Burns may occur if contact with molten materials and require hospital treatment. Wash thoroughly with running water.
Inhalation	Not expected to require first aid measures. Inhalation of dust may irritate the upper respiratory system,
Skin contact	Dust may cause mechanical irritation of the skin. Burns may occur if contact with molten material and require hospital attention. .

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<b>Ingestion</b>	Not expected to require first aid measures. If large amounts were swallowed, give water to drink and get medical attention.
<b>Protection of first-aiders</b>	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

##### **Potential acute health effects**

<b>Eye contact</b>	No information available
<b>Inhalation</b>	No information available
<b>Skin contact</b>	Skin absorption may cause effects similar to those described for inhalation.
<b>Ingestion</b>	Not expected to require first aid measures. If large amounts were swallowed, give water to drink and get medical attention.

##### **Over-exposure signs/symptoms**

<b>Eye contact</b>	No specific information available
<b>Inhalation</b>	No specific information available
<b>Skin contact</b>	No specific information available
<b>Ingestion</b>	No specific information available

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

<b>Notes to physician</b>	Treat symptomatically. Contact poison treatment specialist immediately if eyes were exposed to large quantities or large quantities have been ingested or inhaled.
<b>Specific treatments</b>	No specific information

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	Suitable for surroundings; water, alcohol-resistant foam, dry chemical or carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	No information available

#### **5.2 Special hazards arising from the substance of mixture**

<b>Hazards from the substance or mixture</b>	Burning of the material can give off toxic gases, carbon monoxide, in addition to small quantities of hydrogen cyanide. Formation of further fission and oxidation products depends upon the fire conditions.
<b>Hazardous thermal decomposition products</b>	Decomposition products at and above 300C can consist of nitrogen oxides, carbon monoxide, carbon dioxide and hydrogen cyanide. Formation of further fission and oxidation products depends upon the temperature.

#### **5.3 Advice for firefighters**

<b>Special protective actions for fire-fighting</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Specific protective equipment for fire-fighting</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### **SECTION 6: Accidental release measure**

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


<b>For non-emergency personnel</b>	Dust, and granular can be slippery, cause landslides and risk of falls
<b>For emergency responders</b>	Sweep and shovel up to avoid slipping.

#### **6.2 Environmental precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

#### **6.3 Methods and materials for containment and cleaning up**

<b>Small spill</b>	Sweep and shovel up to avoid slipping.
<b>Large spill</b>	Sweep and shovel up to avoid slipping. Collect the material and place in clean dry and labeled containers.

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<b>6.4 Reference to other sections</b>
None

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

<b>Protective measures</b>	Use appropriate personal protective equipment (see Section 8). Do not breathe dust, and avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse containers. All containers shall be properly labeled.
<b>Advice on general occupational hygiene</b>	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.;

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

Store in accordance with local regulations. Store in original containers at room temperature Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

<b>Recommendations</b>	AVOID EXPOSURE OF (PREGNANT) WOMEN! Ventilate by appropriate method. (See "8. Exposure control/personal protection"). Install appropriate equipment and wear appropriate protective clothing. (See "8. Exposure control/personal protection") Use personal protective equipment as required. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands and face thoroughly after handling. Eating, drinking and smoking in work areas is prohibited. Contaminated work clothing should not be allowed out of the workplace.
<b>Industrial sector specific solutions</b>	No specific information is available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

<u>Occupational exposure limits</u>				
Product / Ingredient name	Exposure limit values			
Substance	Form	TWA	STEL	Reference
Polyamide 6	Dust, mist (inhalable)	10 mg/m <sup>3</sup>	-	OSHA, ACGIH
	Dust, mist (respirable)	3 mg/m <sup>3</sup>	-	OSHA, ACGIH

#### Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

**Derived No Effect Levels (DNEL):** No information available


**Predicted No Effect Concentrations (PNEC):** No information available

### 8.2 Exposure controls

<b>Appropriate engineering controls</b>	During thermal processing and/or if operations generate dust or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
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#### Individual protection measures

<b>Hygiene measures:</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
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<b>Eye/face protection:</b>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mist, gases or dusts. Recommended: safety glasses with side-shields particularly when handling hot melts
<b>Skin protection</b>	
<b>Hand protection:</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this are necessary.
<b>Body protection:</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by specialists before handling this product.
<b>Other skin protection:</b>	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved before handling this product. This is only advisory and must be evaluated on a case-to- case basis by specialists.
<b>Respiratory protection:</b>	In case of dust generation or handling melts, use properly fitted, air-purifying or air-fed respirators complying with an approved standard if a risk assessment indicates this is necessary or as backup to engineering controls. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
<b>Environmental exposure controls:</b>	In the case of dust emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.


## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	
<b>Physical state:</b>	Solid under normal conditions;
<b>Color:</b>	Various, depending on the shade; generally white when raw (glossy/semimatt/matt)
<b>Odor:</b>	odorless
<b>Odor threshold :</b>	Not applicable
<b>pH:</b>	Not applicable
<b>Melting point/freezing point range:</b>	170 – 260 °C
<b>Boiling point:</b>	No data available
<b>Flash ignition temperature:</b>	420 °C
<b>Evaporation rate (Butyl acetate=1.0):</b>	Not applicable
<b>Flammability (solid, gas):</b>	
<b>Burning time:</b>	No data available
<b>Burning rate:</b>	No data available
<b>Upper/lower flammability or explosive limits:</b>	Lower: 70 – 100 g/m <sup>3</sup> Upper: No data available
<b>Explosion group;</b>	Dust, Group G (USA) or IIIB (EU 60079)
<b>Vapor Pressure:</b>	No data available
<b>Vapor Specific Gravity (Air=1):</b>	No data available
<b>Density:</b>	1.14 g/cm <sup>3</sup> (at 20 °C)
<b>Bulk density</b>	>400 kg/m <sup>3</sup>
<b>Solubility(ies):</b>	Insoluble in water.
<b>Partition coefficient; n-octane/water:</b>	Not applicable
<b>Ignition temperature:</b>	>400 °C (ASTM D 1929; mean particle size 20 µm) 513 °C (dust cloud) >200 °C (dust layer)
<b>Decomposition temperature range:</b>	310 – 420 °C
<b>Viscosity:</b>	Not applicable
<b>Explosive properties:</b>	No data available
<b>Oxidizing properties:</b>	No data available

### 9.2 Other information

None

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### SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>
No specific test data related to reactivity available for this product.
<b>10.2 Chemical stability</b>
The product is stable under recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>
Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>
Keep away from heat and flame.
<b>10.5. Incompatible materials</b>
Strong oxidizing agents, strong acids, phenol and cresol.
<b>10.6 Hazardous decomposition products</b>
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

<b>11.1 Information on toxicological effects</b>
<b>Acute and chronic Toxicity:</b> The material is not harmful if it is properly handled and processed according to the given recommendations.


### SECTION 12: Ecological information

<b>12.1 Toxicity</b>
<b>Acute Toxicity:</b>
<b>Conclusion/summary:</b> Not available
<b>12.2 Persistence and degradability</b>
<b>Conclusion/summary:</b> Not biologically degradable
<b>12.3 Bioaccumulative potential</b>
<b>Conclusion/summary:</b> Bioaccumulation is unlikely
<b>12.4 Mobility in soil</b>
<b>Conclusion/summary:</b> Not likely
<b>12.5 Results of PBT and vPvB assessment</b>
Not considered either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative at levels of 0.1% or higher
<b>12.6 Other adverse effects</b>
No known significant effects or critical hazards.

### SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

<b>13.1 Waste treatment methods</b>	
<b>Product</b>	
<b>Methods of disposal:</b>	The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
<b>Hazardous waste:</b>	The classification of the product does not meet the criteria for a hazardous waste.

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<b>Packaging</b>	
<b>Methods of disposal:</b>	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
<b>Special precautions:</b>	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues.

**SECTION 14: Transport information**

The product is not regulated for transportation.		<b>ADR/RID</b>	<b>ADN/ADNR</b>	<b>IMDG</b>	<b>IATA</b>
14.1	<b>UN number</b>	None	None	None	None
14.2	<b>UN proper shipping name</b>	None	-	-	-
14.3	<b>Transport hazard class(es)</b>	None	None	None	None
14.4	<b>Packing group</b>	None	None	None	None
14.5	<b>Environmental hazards</b>	None	None	None	None
14.6	<b>Special precautions for user</b>	Not available	Not available	Not available	Not available
14.7	<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	None	None	None	None

**SECTION 15: Regulatory information**

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

<b>EU Regulation (EC) No. 1907/2006 (REACH)</b>
<b>Annex XIV - List of substances subject to authorization</b>
<b>Substances of very high concern</b>
No data available

<b>Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>
No data available

<b>Other EU regulations</b>	
<b>Europe inventory:</b>	All components are not listed and exempted.
<b>Black List Chemicals:</b>	Not listed
<b>Priority List Chemicals:</b>	No data available
<b>Integrated pollution prevention and control list (IPPC) - Air:</b>	According to TA Luft 2002 of Germany: Mass flow: 0.2 kg/hour or Mass concentration: 20 mg/m <sup>3</sup> If mass flow < 0.2 kg/m <sup>3</sup> , then mass concentration ≤ 150 mg/m <sup>3</sup>
<b>Integrated pollution prevention and control list (IPPC) - Water:</b>	No data available

<b>International regulations</b>	
<b>Chemical Weapons Convention List Schedule I Chemical:</b>	Not listed
<b>Chemical Weapons Convention List Schedule II Chemicals:</b>	Not listed
<b>Chemical Weapons Convention List Schedule III Chemicals:</b>	Not listed

**15.2 Chemical Safety Assessment**

This product contains substances for which Chemical Safety Assessments are still required.

**SECTION 16: Other information**


**Indicates information that has changed from previously issued version.**

**Abbreviations and acronyms:** None

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Classification	Justification
Not classified	-
Not classified	-
Not classified	-

Conform to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), Annex II -Europe

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<b>Full text of abbreviated R phrases</b>	None
<b>Full text of classifications[DSD/DPD]</b>	None
<b>Version</b>	1.7
<b>Date of issue/ Date of revision</b>	01/23/2020
<b>Date of previous issue</b>	11/18/2019
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