

SAFETY DATA SHEET		PR/EOHD/OHS/F-310	 بترو رابغ Petro Rabigh
PRODUCT NAME : THERMO PLASTIC OLEFIN Series-1			
Reference No. SDS-09-0034	Revision No. 1.6 August 4, 2019	Page 1 of 9	

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

1.1 Product Identifier	
Product Name:	Thermo Plastic Olefin Series-1
Other/Generic Names:	TPO, Thermoplastic Polyolefin
Grades;	820, 8710, 903, 903HE, WT485, WT505, AD50270, EA75206, EA79212, MD59250, MD60260, SA629200
REACH Registration Number:	Not applicable
EC Number:	Not available
CAS Number:	Not available
Molecular formula:	Not available
Molecular Structure:	Not available
Molecular weight range:	Not available

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

IDENTIFIED USES: Resins
MOST COMMON TECHNICAL FUNCTION OF SUBSTANCE (WHAT IT DOES): Pharmaceutical ingredient, pharmaceutical intermediate food processing material
USES BY CONSUMERS ADVISED AGAINST Final product.

1.3 Manufacturer or supplier's details

Manufacturer	Rabigh Refining and Petrochemical Company		
Address	PLANT PO Box 101, Rabigh 21911, Kingdom of Saudi Arabia Tel: +966 12 425 0390 Free Number: 800 440 9000		
E-mail address of person responsible for this SDS	stephane.dallaire@petrorabigh.com		
Emergency telephone numbers (24-hour)	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:	ChemTrec 1-800-424-9300	English
	Outside above area:	+703-527-3887	
	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	

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture	
Product Definition:	TPO Series
Classification according to Directive 67/548/EEC [DSD]:	Not classified. Under normal conditions of use, the material is not expected to create unusual emergency hazards.

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2.2 Label elements	
Hazard pictograms (Labelling according Regulation (EC) No 1272/2008):	Not Applicable
Signal word:	Not Applicable
Hazard statements:	Not Applicable
<u>Precautionary statements</u>	Prevention: Not Applicable Response: Not Applicable Storage: Not Applicable Disposal: Not Applicable
<u>Special packaging requirements</u>	
Containers to be fitted with child-resistant fastenings:	Not applicable
Tactile warning of danger:	Not applicable
2.3 Other hazards	
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

3.1 Classification of the substance or mixture					
Substance/mixture					
Product / Ingredient name	Identifiers	Wt%	Classification		
			Directive 1999/45/EC	Regulation (EC) No. 1272/2008 [CLP/GHS]	Type
α-Olefin resin	CAS: Mixed	0 - 100%	This substance is not classified as dangerous	Not a hazardous substance or mixture	[A]
Ethylene Propylene Rubber	Not available	0 - 80%	This substance is not classified as dangerous	Not a hazardous substance or mixture	[A]
Mineral oil	Not available	0 - 50%	Classification not possible	H319: Causes serious eye irritation	[A]
Filler	Not available	0 - 30%	Classification not possible	Classification not possible	[B]
Additives	Not available	≤ 5%	Classification not possible	Classification not possible	[B]

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] Stabilizing additive; Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Apply artificial respiration if victim is not breathing. Rinse nose, mouth and throat with water. Keep victim warm with a blanket etc. Get immediate medical advice/attention. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Skin contact	Remove/take off immediately contaminated clothing and shoes. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Burns (in contact with molten product or heated product): Immediately immerse in large amount of cold water, or flush with large amounts of water the affected area to dissipate heat. While flushing, remove clothes which do not adhere to affected area. Cover with clean cotton sheeting or gauze. Get immediate medical advice/attention.

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Eye contact	Do not rub eye. Hold eyelids apart. Begin to rinse with water as soon as possible and rinse cautiously for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. Burns (in contact with molten product or heated product) : Immediately immerse in large amount of cold water, or flush with large amounts of water the affected area to dissipate heat.
Ingestion	Rinse mouth. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Keep victim warm with a blanket etc. Get immediate medical advice/attention. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Administer oxygen if breathing is difficult. Apply artificial respiration if victim is not breathing.
Protection of first-aiders	Use personal protective equipment as required.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute and delayed health effects	
Inhalation	Not a probable route of exposure under normal conditions of use. Elevated processing temperatures may generate fumes and vapors which may cause irritation to the nose and throat.
Skin contact	May cause mechanical irritation if the product comes into contact with the skin. Contact with molten material may cause thermal burns.
Eye contact	May cause mechanical irritation if product comes into contact with the eyes.
Ingestion	Not a probable route of exposure. No applicable information found.

Over-exposure signs/symptoms	
Eye contact	No specific data available
Inhalation	No specific data available
Skin contact	No specific data available
Ingestion	No specific data available

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	No specific advice, treat symptomatically.
Specific treatments	No specific information

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Small fires: Dry chemical powder, carbon dioxide, water spray, regular foam. Use fire-extinguishing media appropriate for surrounding materials. Large fires: Water spray, fog, regular foam. Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	High pressure water streams.
Special Fire Fighting Procedures	Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Keep upwind. Keep unauthorized personnel away. If possible, remove containers exposed to heat or cool with water. Let the fire burn itself out with cooling cylinder/vessel by water spray unless leak can be stopped. Do not scatter spilled material with high pressure water streams. Dike fire water for later disposal; do not spread the material. Cool containers with flooding quantities of water until well after fire is out.

5.2 Special hazards arising from the substance of mixture

Hazards from the substance or mixture	Contact may cause burns to skin and eyes. Inhalation may cause coughing, difficult breathing and nausea. Effects of contact or inhalation may be delayed. May decompose upon heat or flame and will produce harmful gases (See section 10: Stability and reactivity") and fumes. Runoff and fire-control water may pollute waters. Risk of fire and explosion on contact with incompatible material(s). For large fires, withdraw from fire area and let fire burn. Inorganic fillers may be contained in smoke and fume by fire.
Hazardous thermal decomposition products	Fumes produced when heated to decomposition temperatures may contain carbon monoxide, carbon dioxide, oxides of nitrogen, and small amounts of aromatic and aliphatic hydrocarbons. Combustion products from rubber, like those of other natural/synthetic materials, must be considered toxic.

5.3 Advice for firefighters

Special protective actions for fire-fighting	Keep upwind. Keep unauthorized personnel away. If possible, remove containers exposed to heat or cool with water. For large fires, withdraw from fire area and let fire burn. Dike fire water for later disposal; do not spread the material. Cool containers with flooding quantities of water until well after fire is out.
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Specific protective equipment for fire-fighting	Wear regional, national, and local standards approved fire fighting turnout gear and positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection from heat, and may not provide adequate protection from the harmful vapors or liquids.
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SECTION 6: Accidental release measure

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust/fu me/gas/mist/vapours/spray. Provide adequate ventilation. Wear appropriate respirators when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	Wear appropriate protective equipment. Use personal protection recommended in section 8: Exposure control/personal protection. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Isolate spill or leak area for proper distance in all directions. Provide adequate ventilation. Keep upwind. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Use only outdoors or in a well-ventilated area. Do not breathe dust/fu me/gas/mist/vapours/spray. Wash face and hands thoroughly after handling.
Prevention of secondary hazards	ELIMINATE all ignition sources such as heat/sparks/open flames/hot surfaces/static discharges. Prevent heat and contact with hot surface. Do not put water inside spilled material containers. Prepare appropriate extinguishing agent. (See "5. Fire-fighting measures") For large spill, consider initial downwind evacuation for proper distance. Prevent dust cloud or/and dust accumulation.

6.2 Environmental precautions

Prevent entry spilled material and runoff from spillage control into waterways, sewers, basements or confined areas. Avoid release to the environment.

6.3 Methods and materials for containment and cleaning up

Small spill	Eliminate ignition sources. Stop leak if without risk. Move containers from spill area. Mop up and place in an appropriate and properly labeled waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Dike far ahead of liquid spill for later disposal. Use clean non-sparking tools. Collect scattered product into sealable containers. Moist particle solid at first to prevent scattering if appropriate. Collect fine substance by dust explosion-proof cleaner to prevent scatter. Collect remaining dust and transfer from danger area for later disposal. See "13. Disposal considerations".

6.4 Reference to other sections

See Section 1 for emergency contact information.
 See Section 8 for information on appropriate personal protective equipment.
 See Section 13 for additional waste treatment information.

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

Protective measures	<p>ELIMINATE all ignition sources. Use only outdoors or in a well-ventilated area. Keep upwind for handling outdoors as much as possible. Keep unauthorized personnel away. Use clean non-sparking tools. Avoid contact with eyes, skin, and clothing. Prevent dust cloud and dust accumulation. Do not breathe powder, dust, shavings, borings, turnings or cuttings. As precautions for electrostatic discharge, inerting closed systems and explosion pressure venting of confined spaces are recommended.</p> <p>In case of open system, prevent from insulator lining or coating of piping, duct, hopper, and apply grounding/ earthing of all conductive process units. Take precautionary measures against static electricity such as grounding and bonding, wearing anti-static footwear and clothing, using grounded conductive floor. Consult an expert about further precautionary measures for dust explosion.</p>
Advice on general occupational hygiene	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.

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7.2 Conditions for safe storage, including any incompatibilities

Technical measures and Conditions	<p>Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep containers tightly closed.</p> <p>Well ventilate by proper manner according to regional, national and local regulations. Protect against direct sunlight. Store in a dry place. Keep in a fire-proof designed place. Keep away from incompatible materials. See "10. Stability and reactivity". Keep away from food and feedstuffs. Store locked up.</p> <p>Use package or container with anti-static discharge liner. All containers shall be properly labeled.</p>
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7.3 Specific end use(s)

Recommendations	<p>Ventilate by appropriate method. (See "8. Exposure control/personal protection").</p> <p>Install appropriate equipment and wear appropriate protective clothing. (See "8. Exposure control/personal protection") Use personal protective equipment as required.</p> <p>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.</p>
Industrial sector specific solutions	<p>Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Recommend to keep containers tightly closed. Well ventilate by proper manner according to regional, national and local regulations. Provision to contain effluent from fire extinguishing. Store locked up. Store in a dry place. Protect against direct sunlight. Keep away from incompatible materials. See "10. Stability and reactivity". Keep away from food and feedstuffs.</p>

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>				
Substance	Form	TWA	STEL	Reference
Particles (insoluble or poorly soluble) not otherwise specified	Dust	3 mg/m ³ (Respirable)	-	ACGIH
	Dust	10 mg/m ³ (Inhalable)	-	ACGIH
Mineral oil	Mist	5 mg/m ³ (Inhalable)	-	ACGIH

8.2 Exposure controls

Appropriate engineering controls	If user operations generate dust, vapor 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

Hygiene measures:	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.
Eye/face protection:	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
Skin protection	
Hand protection:	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. For 8-hour full or splash contact with the material, use gloves made of butyl rubber with minimum layer thickness of 0.3 mm.
Body protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection:	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 by a specialist before handling this product. If used in solution, or mixed with other substances, contact suppliers of approved gloves and skin protection. This is only advisory and must be evaluated on a case-to- case basis by specialists.
Respiratory protection:	Use a properly fitted, air-purifying or air-fed respirator 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. Recommended: organic vapor filter (Type A)
Environmental exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state:	Solid in pellet form
Color:	Milky white
Odor:	Slight odor
Odor threshold :	Not applicable
pH:	No data available
Melting point/freezing point range:	100 - 170 °C
Boiling point:	No data available
Flash point:	No data available
Evaporation rate (Butyl acetate=1.0):	No data available
Flammability (solid, gas):	
Burning time:	No data available
Burning rate:	No data available
Upper/lower flammability or explosive limits:	Lower: No data available Upper: No data available
Vapor Pressure:	No data available
Vapor Specific Gravity (Air=1):	No data available
Specific gravity (water =1.0)	0.86 - 1.00
Solubility(ies):	Insoluble in water. No data available for other than water.
Partition coefficient; n-octane/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	Not applicable
Explosive properties:	Classification not possible
Oxidizing properties:	Classification not possible

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product.

10.2 Chemical stability

Normally stable. Avoid exposure to open flame or temperatures exceeding recommended processing conditions.

10.3 Possibility of hazardous reactions

Thermal decomposition products may include carbon monoxide, carbon dioxide, dense smoke, aldehydes, other organic vapors.

10.4 Conditions to avoid

Keep away from ignition sources, heat, sparks, flame, hot surfaces and incompatible materials and avoid accumulation of static electricity.

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. Carbon oxides, hydrocarbons and soot.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects				
Acute Toxicity:	Product/Ingredient name	Result	Species	Dose
Oral	1-Propene, homopolymer	LDLo	Mouse	>8,000 mg/kg
		LD50	Rat	>8,000 mg/kg
Dermal	No data available	-	-	-
Inhalation	No data available	-	-	-
	Mineral oil	Category 4	-	-
Skin	Corrosivity:	No data available	-	
	Irritation:	1-Propene, homopolymer	Human (volunteer test): Not irritating	
	Filler	Rabbit: Moderately irritating		Human: Irritating
Eye	Corrosivity:	No data available	-	
	Irritation:	Filler	Rabbit: Severely irritating	
			Human: Mildly irritating	
Sensitization	Respiratory:	No data available	-	
	Skin:	1-Propene, homopolymer	Human (volunteer test): non-sensitizer	
Germ cell mutagenicity:		No data available	-	
	Mineral oil	Category 2		
Carcinogenicity:		1-Propene, homopolymer	IARC: 3 (Not classified as carcinogen to humans)	
Reproductive toxicity				
	Teratogenicity:	No data available	-	
	Reproduction:	No data available	-	
Specific target organ toxicity STOT (single exposure):				
	1-Propene, homopolymer	Classification not possible		
	Mineral oil	Category 2 (inhalation): respiratory system		
Specific target organ toxicity STOT (repeated exposure):				
	No data available	-		
	Mineral oil	Category 1: skin (dermal), Respiratory system (inhalation), Lymph system (oral).		
Aspiration Hazards:		No data available	-	
Other Effects:		No data available	-	

SECTION 12: Ecological information

12.1 Toxicity				
Acute Toxicity:	Product/Ingredient name	Result	Species	Dose
Fish	No data available	-	-	-
Crustacea	No data available	-	-	-
Algae	No data available	-	-	-
Others:	No data available	-	-	-
Chronic Toxicity:				
Persistency/Durability:	No data available	-	-	-
Bioaccumulative potential:	No data available	-	-	-
Mobility in soil				
	No data available	-	-	-
12.2 Persistence and degradability				
Conclusion/summary:		No data available		

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12.3 Bioaccumulative potential
Conclusion/summary: No data available
12.4 Mobility in soil
Conclusion/summary: No data available
12.5 Results of PBT and vPvB assessment
No data available
12.6 Other adverse effects
No data available

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).

13.1 Waste treatment methods

Product	
Methods of disposal:	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.
Hazardous waste:	The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal:	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.
Special precautions:	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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

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

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SECTION 15: Regulatory information	
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
EU Regulation (EC) No. 1907/2006 (REACH): <i>Planned to be registered.</i>	
Annex XIV - List of substances subject to authorization	
Substances of very high concern: No data available	
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : No data available	
Other EU regulations	
Europe inventory:	All components are listed or exempted.
Black List Chemicals:	Not listed
Priority List Chemicals:	No data available
Integrated pollution prevention and control list (IPPC) - Air:	No data available
Integrated pollution prevention and control list (IPPC) - Water:	No data available
International regulations	
Chemical Weapons Convention List Schedules I, II and III Chemical:	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
Revision	1.6
Date of issue/ Date of revision:	08/04/2019
Date of previous issue:	02/20/2019
DISCLAIMER:	
The information is based on our current and best knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. Petro Rabigh makes no warranty of any kind, expressed or implied, regarding the accuracy of these data. Petro Rabigh assumes no responsibility for injury from the use of the product described herein.	