



## 1. Identification of the substance/preparation and of the company/undertaking

<b>Product name</b>	: MELDIN® 7000 Series		
<b>Trade name</b>	: Meldin® 7001, Meldin® 7003, Meldin® 7021, Meldin® 7022, Meldin® 7211		
<b>Synonyms</b>	: Poly-N,N'-(p,p'-oxidiphenylene) pyromellitimide		
<b>ADG</b>	: -		
<b>Uses</b>	: Plastic parts or shapes.		
<b>Company / Manufacturer</b>			
<b>Manufacturer</b>	: Saint-Gobain Performance Plastics 386 Metacom Avenue, Bristol, RI, 02809 Tel : (401) 253-2000, Fax : (401) 253-8211		
<b>Emergency telephone number</b>	: ChemTel : 1-813-248-0585 International, 1-800-255-3924 USA		
<b>MSDS authored by:</b>	: Kemika XXI Inc. + 1-450-435-7475		10/30/2006

## 2. Composition/information on ingredients

**Substance/preparation** : Preparation

**Australia, Belgium, France, Germany, India, Ireland, Israel, Italy, Netherlands, New Zealand, Philippines, Spain, United Kingdom (UK)**

Ingredient name	EC number	Classification	CAS number	%
Poly-N,N'-(p,p'-oxidiphenylene) pyromellitimide	EXEMPTED	Not classified.	25038-81-7	60 - 100
Graphite, synthetic	231-955-3	Not classified.	7782-42-5	0 - 40
Molybdenum disulfide	215-263-9	Not classified.	1317-33-5	0 - 15
Polytetrafluoroethylene		-	9002-84-0	0 - 10

**Argentina, Brazil, Canada, China, Hong Kong, Singapore, United States**

Ingredient name	CAS number	%
Poly-N,N'-(p,p'-oxidiphenylene) pyromellitimide	25038-81-7	60 - 100
Graphite, synthetic	7782-42-5	0 - 40
Molybdenum disulfide	1317-33-5	0 - 15
Polytetrafluoroethylene	9002-84-0	0 - 10

**Mexico**

Ingredient name	UN number	IDLH	H	F	R	Special	CAS number	%
Poly-N,N'-(p,p'-oxidiphenylene) pyromellitimide	Not regulated.	-	0	2	0		25038-81-7	60 - 100
Graphite, synthetic	Not regulated.	1250 mg/m <sup>3</sup>	1	1	0		7782-42-5	0 - 40
Molybdenum disulfide	Not regulated.	5000 mg/m <sup>3</sup>	0	0	0		1317-33-5	0 - 15
Polytetrafluoroethylene	Not regulated.	-	0	1	0		9002-84-0	0 - 10

**Japan**

Ingredient name	Chemical formula	METI	MOL	PRTR	CAS number	%
Poly-N,N'-(p,p'-oxidiphenylene) pyromellitimide	(C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> O.C <sub>10</sub> H <sub>2</sub> O <sub>6</sub> ) <sub>x</sub>	(7)-748	Not available.	Not available.	25038-81-7	60 - 100
Graphite, synthetic	C	Not available.	Not available.	Not available.	7782-42-5	0 - 40
Molybdenum disulfide	MoS <sub>2</sub>	(1)-481	Not available.	Not available.	1317-33-5	0 - 15
Polytetrafluoroethylene	(C <sub>2</sub> F <sub>4</sub> ) <sub>x</sub>	Not available.	Not available.	Not available.	9002-84-0	0 - 10


**Korea**

Ingredient name	KOREA INVENTORY (ECL)	Classification	CAS number	%
Poly-N,N'-(p,p'-oxidiphenylene) pyromellitimide	Not available.	Not classified.	25038-81-7	60 - 100
Graphite, synthetic	Not available.	Not classified.	7782-42-5	0 - 40
Molybdenum disulfide	Not available.	Not classified.	1317-33-5	0 - 15
Polytetrafluoroethylene	Not available.	Not classified.	9002-84-0	0 - 10

See toxicological information (section 11)

See Section 14 for Transport information.

See section 16 for the full text of the R-phrases declared above

Occupational exposure limits, if available, are listed in section 8.

**3. Hazards identification**

No acute or chronic hazards are known for the solid, fully cured plastic.

Dust or particles produced during handling of powder or grinding, fabricating, machining or processing of this material in any form could present general hazards of inert airborne particulate matter related to particle size, concentration, and years of exposure.

**Europe**

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : Not classified.

**Australia - New Zealand**

**Classification** : Not regulated.

**Risk phrases** : Not classified.

**Statement of hazardous/dangerous nature** : NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

**Americas and Singapore**

**Physical state** : Solid Plastic or Powder.

**Emergency overview** : No specific hazard.  
USE WITH CARE.  
Follow good industrial hygiene practice.

**Routes of entry** : Dermal contact. Eye contact. Inhalation. Ingestion.

**Potential acute health effects**

**Eyes** : Slightly irritating to the eyes.

**Skin** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

**Potential chronic health effects** : Carcinogenic effects: Classified None. by NIOSH [Polytetrafluoroethylene].  
Classified 3 (Not classifiable for humans.) by IARC [Polytetrafluoroethylene].  
Mutagenic effects: None Expected.  
Teratogenic effects: None Expected.

**Asia**

**China - Hong Kong** **Classification** : Not classified.

**Japan** **Classification** : Not applicable.

**Korea - India - Philippines** **Classification** : Not classified.



## 4. First aid measures

<b>Eye contact</b>	: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if irritation occur
<b>Skin contact</b>	: Wash with soap and water. Get medical attention if irritation occurs.
<b>Inhalation</b>	: Move person to fresh air. Get medical attention if breathing difficulty persists.
<b>Ingestion</b>	: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
<b>Notes to physician</b>	: No specific treatment.
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training.

**See section 11 for more detailed information on health effects and symptoms.**

## 5. Fire-fighting measures

<b>Flammability of the product</b>	: Non-flammable.
<b>Fire hazards in the presence of various substances</b>	: Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge. Non-flammable in the presence of the following materials or conditions: heat.
<b>Extinguishing media</b>	
<b>Suitable</b>	: Use an extinguishing agent suitable for the surrounding fire.
<b>Not suitable</b>	: None known.
<b>Special exposure hazards</b>	: No specific hazard.
<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

<b>Personal precautions</b>	: Use suitable protective equipment.
<b>Environmental precautions</b>	: Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.
<b>Methods for cleaning up</b>	: Recover undamaged and minimally contaminated material for reuse or reclamation. For contaminated material, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal. See Section 13 for disposal consideration.

## 7. Handling and storage

<b>Handling</b>	: Wash thoroughly after handling.
<b>Storage</b>	: Keep container tightly closed. Keep container in a cool, well-ventilated area.
<b>Packaging materials</b>	
<b>Recommended</b>	: Use original container.

## 8. Exposure controls/personal protection

Only countries for which at least one ingredient has an OEL is shown in this section.

Ingredient name	Occupational exposure limits
<b>Argentina</b>	
Graphite, synthetic	<b>ACGIH TLV (United States, 1/2005).</b> TWA: 2 mg/m <sup>3</sup> 8 hour(s). Form: Dust
Molybdenum disulfide	<b>ACGIH TLV (United States, 1/2005).</b> TWA: 3 mg/m <sup>3</sup> 8 hour(s). Form: Insoluble



<b>Australia</b>	Graphite, synthetic  Molybdenum disulfide	<b>NOHSC (Australia, 7/2003).</b> STEL: 3 mg/m <sup>3</sup> 15 minute(s). Form: Respirable dust TWA: 2 mg/m <sup>3</sup> 8 hour(s). Form: Respirable dust <b>NOHSC (Australia, 7/2003).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Insoluble
<b>Belgium</b>	Poly-N,N'-(p,p'-oxidiphenylene) pyromellitimide  Graphite, synthetic  Molybdenum disulfide	<b>EH40-WEL (Europe).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Total inhalable dust TWA: 4 mg/m <sup>3</sup> 8 hour(s). Form: Respirable dust <b>Lijst Grenswaarden / Valeurs Limites (Belgium, 12/2003).</b> TWA: 2 mg/m <sup>3</sup> 8 hour(s). Form: Respirable fraction <b>Lijst Grenswaarden / Valeurs Limites (Belgium, 12/2003).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: All forms.
<b>Brazil</b>	Graphite, synthetic  Molybdenum disulfide	<b>ACGIH TLV (United States, 1/2005).</b> TWA: 2 mg/m <sup>3</sup> 8 hour(s). Form: Dust <b>ACGIH TLV (United States, 1/2005).</b> TWA: 3 mg/m <sup>3</sup> 8 hour(s). Form: Insoluble
<b>Canada</b>	Graphite, synthetic  Molybdenum disulfide	<b>ACGIH TLV (United States, 1/2005).</b> TWA: 2 mg/m <sup>3</sup> 8 hour(s). Form: Dust <b>ACGIH TLV (United States, 1/2005).</b> TWA: 3 mg/m <sup>3</sup> 8 hour(s). Form: Insoluble
<b>China</b>	Graphite synthetic           Molybdenum disulfide	<b>GBZ-2 (China, 1/2002).</b> STEL: 3 mg/m <sup>3</sup> 15 minute(s). Form: Respirable dust STEL: 6 mg/m <sup>3</sup> 15 minute(s). Form: Total dust TWA: 2 mg/m <sup>3</sup> 8 hour(s). Form: Respirable dust (Inhaled dust, refers to inhaled dust sampling method which gathers dust granules that may enter the pulmonary alveolus, with aerodynamic diameters all below 7.07 µm) TWA: 4 mg/m <sup>3</sup> 8 hour(s). Form: Total dust (Refers to the 40mm diameter filter diaphragm, according to standard dust determination sampling method obtained dust.) <b>GBZ-2 (China, 1/2002).</b> STEL: 15 mg/m <sup>3</sup> 15 minute(s). Form: All forms TWA: 6 mg/m <sup>3</sup> 8 hour(s). Form: All forms
<b>France</b>	Poly-N,N'-(p,p'-oxidiphenylene) pyromellitimide  Graphite, synthetic	<b>EH40-WEL (Europe).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Total inhalable dust TWA: 4 mg/m <sup>3</sup> 8 hour(s). Form: Respirable dust <b>INRS (France, 2/2005).</b> VME: 2 mg/m <sup>3</sup> 8 hour(s). Form: Respirable fraction
<b>Germany</b>	Poly-N,N'-(p,p'-oxidiphenylene) pyromellitimide  Graphite, synthetic	<b>EH40-WEL (Europe).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Total inhalable dust TWA: 4 mg/m <sup>3</sup> 8 hour(s). Form: Respirable dust <b>MAK-Werte Liste (Germany, 7/2004).</b> TWA: 4 mg/m <sup>3</sup> 8 hour(s). Form: Inhalable fraction. TWA: 1.5 mg/m <sup>3</sup> 8 hour(s). Form: Respirable fraction



<p><b>India</b></p> <p>Poly-N,N'-(p,p'-oxidiphenylene) pyromellitimide</p> <p>Molybdenum disulfide</p>	<p><b>EH40-WEL</b>          TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total inhalable dust          TWA: 4 mg/m<sup>3</sup> 8 hour(s). Form: Respirable dust</p> <p><b>ACGIH TLV</b>          TWA: 3 mg/m<sup>3</sup> 8 hour(s). Form: Insoluble</p>
<p><b>Ireland</b></p> <p>Poly-N,N'-(p,p'-oxidiphenylene) pyromellitimide</p> <p>Molybdenum disulfide</p>	<p><b>EH40-WEL</b>          TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total inhalable dust          TWA: 4 mg/m<sup>3</sup> 8 hour(s). Form: Respirable dust</p> <p><b>NAOSH (Ireland, 3/2002).</b>          OELV: 20 mg/m<sup>3</sup> 15 minute(s). Form: All forms          OELV: 10 mg/m<sup>3</sup> 8 hour(s). Form: All forms</p>
<p><b>Israel</b></p> <p>Poly-N,N'-(p,p'-oxidiphenylene) pyromellitimide</p> <p>Molybdenum disulfide</p>	<p><b>EH40-WEL</b>          TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total inhalable dust          TWA: 4 mg/m<sup>3</sup> 8 hour(s). Form: Respirable dust</p> <p><b>ACGIH TLV</b>          TWA: 3 mg/m<sup>3</sup> 8 hour(s). Form: Insoluble</p>
<p><b>Italy</b></p> <p>Poly-N,N'-(p,p'-oxidiphenylene) pyromellitimide</p>	<p><b>EH40-WEL (Europe).</b>          TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total inhalable dust          TWA: 4 mg/m<sup>3</sup> 8 hour(s). Form: Respirable dust</p>
<p><b>Japan</b></p> <p>Graphite, synthetic</p>	<p><b>JSOH (Japan, 4/2005).</b>          TWA: 0.5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable dust          TWA: 2 mg/m<sup>3</sup> 8 hour(s). Form: Total dust</p>
<p><b>Korea</b></p> <p>Molybdenum disulfide</p>	<p><b>Ministry of Labor (KR, 5/2002).</b>          TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: All forms</p>
<p><b>Mexico</b></p> <p>Molybdenum disulfide</p>	<p><b>NOM-010-STPS (Mexico, 9/2000).</b>          CCT: 20 mg/m<sup>3</sup> 15 minute(s). Form: All forms.          CPT: 10 mg/m<sup>3</sup> 8 hour(s). Form: All forms.</p>
<p><b>Netherlands</b></p> <p>Poly-N,N'-(p,p'-oxidiphenylene) pyromellitimide</p> <p>Graphite, synthetic</p> <p>Molybdenum disulfide</p>	<p><b>EH40-WEL (Europe).</b>          TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total inhalable dust          TWA: 4 mg/m<sup>3</sup> 8 hour(s). Form: Respirable dust</p> <p><b>Nationale MAC-lijst (Netherlands, 3/2005).</b>          TGG: 2 mg/m<sup>3</sup> 8 hour(s). Form: Respirable fraction</p> <p><b>Nationale MAC-lijst (Netherlands, 3/2005).</b>          TGG: 10 mg/m<sup>3</sup> 8 hour(s). Form: All forms.</p>
<p><b>New Zealand</b></p> <p>Graphite, synthetic</p> <p>Molybdenum disulfide</p>	<p><b>NOHSC</b>          STEL: 3 mg/m<sup>3</sup> 15 minute(s). Form: Respirable dust          TWA: 2 mg/m<sup>3</sup> 8 hour(s). Form: Respirable dust</p> <p><b>NOHSC</b>          TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Insoluble</p>



**Philippines**

Poly-N,N'-(p,p'-oxidiphenylene)  
pyromellitimide

**EH40-WEL**  
TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total inhalable dust  
TWA: 4 mg/m<sup>3</sup> 8 hour(s). Form: Respirable dust

Molybdenum disulfide

**ACGIH TLV**  
TWA: 3 mg/m<sup>3</sup> 8 hour(s). Form: Insoluble

**Singapore**

Poly-N,N'-(p,p'-oxidiphenylene)  
pyromellitimide

**OSHA PEL (United States).**  
TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total dust  
TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable dust  
**EH40-WEL (Europe).**  
TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total inhalable dust  
TWA: 4 mg/m<sup>3</sup> 8 hour(s). Form: Respirable dust

Graphite, synthetic

**Factories Order (PEL) (SG, 11/2004).**  
TWA: 2 mg/m<sup>3</sup> 8 hour(s). Form: Respirable dust

Molybdenum disulfide

**Factories Order (PEL) (SG, 11/2004).**  
TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: All forms.  
Not available.

Polytetrafluoroethylene

**Spain**

Poly-N,N'-(p,p'-oxidiphenylene)  
pyromellitimide

**EH40-WEL (Europe).**  
TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total inhalable dust  
TWA: 4 mg/m<sup>3</sup> 8 hour(s). Form: Respirable dust

Graphite, synthetic

**INSHT (Spain, 1/2005).**  
VLA-ED: 2 mg/m<sup>3</sup> 8 hour(s). Form: All forms.

Molybdenum disulfide

**INSHT (Spain, 1/2005).**  
VLA-ED: 10 mg/m<sup>3</sup> 8 hour(s). Form: All forms.

**United Kingdom (UK)**

Poly-N,N'-(p,p'-oxidiphenylene)  
pyromellitimide

**EH40-WEL (Europe).**  
TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total inhalable dust  
TWA: 4 mg/m<sup>3</sup> 8 hour(s). Form: Respirable dust

Graphite, synthetic

**EH40-WEL (United Kingdom (UK), 1/2005).**  
TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Inhalable fraction.  
TWA: 4 mg/m<sup>3</sup> 8 hour(s). Form: Respirable fraction

Molybdenum disulfide

**EH40-WEL (United Kingdom (UK), 1/2005).**  
STEL: 20 mg/m<sup>3</sup> 15 minute(s). Form: All forms.  
TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: All forms.

**United States**

Poly-N,N'-(p,p'-oxidiphenylene)  
pyromellitimide

**OSHA PEL (United States).**  
TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total dust  
TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable dust

Graphite, synthetic

**ACGIH TLV (United States, 1/2005).**  
TWA: 2 mg/m<sup>3</sup> 8 hour(s). Form: Dust  
**NIOSH REL (United States, 12/2001).**  
TWA: 2.5 mg/m<sup>3</sup> 10 hour(s). Form: Respirable fraction

Molybdenum disulfide

**OSHA PEL 1989 (United States, 3/1989).**  
TWA: 2.5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable dust  
**ACGIH TLV (United States, 1/2005).**  
TWA: 3 mg/m<sup>3</sup> 8 hour(s). Form: Insoluble  
**OSHA PEL (United States, 8/1997).**  
TWA: 15 mg/m<sup>3</sup> 8 hour(s). Form: Total dust





<b>Recommended monitoring procedures</b>	: 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 national standards on methods for the assessment of exposure by inhalation to chemical agents (e.g., European Standard EN 689, U.S. NIOSH Sampling methods, etc.).
<b>Exposure controls</b>	
<b>Occupational exposure controls</b>	: No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
<b>Eye protection</b>	: Safety glasses with side-shields recommended during powder handling or dust generating operations.
<b>Skin protection</b>	: Skin protection is not needed under normal and intended conditions of product use.
<b>Respiratory protection</b>	: A respirator is not needed under normal and intended conditions of product use.
<b>Hand protection.</b>	: Nitrile gloves and/or barrier cream.
<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.
<b>Environmental exposure controls</b>	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## 9. Physical and chemical properties

<b>General information</b>	
<b>Appearance</b>	
<b>Physical state</b>	: Solid Plastic or Powder.
<b>Color</b>	: Powder: yellow, green, gray, black Solid: brown or black
<b>Important health, safety and environmental information</b>	
<b>Melting point</b>	: Not applicable.
<b>Relative density</b>	: 1.3 to 1.7 for solid.
<b>Solubility</b>	: Insoluble in cold water, hot water.

## 10. Stability and reactivity

<b>Stability and reactivity</b>	: The product is stable.
<b>Incompatibility with various substances</b>	: Reactive with oxidizing materials and acids.
<b>Hazardous decomposition products</b>	: Small amounts of carbonyl fluoride and hydrogen fluoride may be evolved when products containing PTFE are overheated (>260°C/500 °F) or burned.
<b>Hazardous polymerization</b>	: Will not occur.
<b>Conditions of reactivity</b>	: Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge. Non-flammable in the presence of the following materials or conditions: heat.



## 11. Toxicological information

### Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

### Potential chronic health effects

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin** : No known significant effects or critical hazards.

### Americas

- Potential chronic health effects** : Carcinogenic effects: Classified None. by NIOSH [Polytetrafluoroethylene].  
Classified 3 (Not classifiable for humans.) by IARC [Polytetrafluoroethylene].  
Mutagenic effects: None Expected.  
Teratogenic effects: None Expected.

## 12. Ecological information

- Environmental precautions** : No known significant effects or critical hazards.
- Mobility** : Not available.
- Products of degradation** : Carbon oxides and water, nitrogen oxides, sulfur oxides, halogenated compounds.  
Some metallic oxides.

## 13. Disposal considerations

- Methods of disposal** : Avoid or minimize the generation of waste whenever possible. Disposal of waste materials must, at all times, comply with applicable national, state and local requirements for environmental protection.
- Hazardous waste** : Within the present knowledge of the supplier, uncontaminated product waste is not classified as hazardous waste as defined by EU Directive 91/689/EEC or U.S. 40 CFR Part 261.

## 14. Transport information

UN / IMDG / IATA / ADNR / ADR / DOT / TDG Not regulated.

## 15. Regulatory information

### Europe, Korea, India and Philippines.

- Risk phrases** : This product is not classified according to EU legislation.
- Product use** : Classification and labeling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.  
- Industrial applications.
- Additional** : Safety Data Sheet available for professional user on request.

### France

- Professional disease/diseases** : Graphite, synthetic **Table number/numbers:25**
- Remark** : Not available.





**Germany**

**Hazard class for water** : 1

**Italy**

**Emission control directive** : 93% Not classified.

**Australia - New Zealand**

**Standard for the Uniform Scheduling of Drugs and Poisons**

**Ingredient name**

No listed substance

**Control of Scheduled Carcinogenic Substances**

**Ingredient name**

No listed substance

**Australian Inventory status** : All substances are listed on AICS or NICNAS.

**United States and Singapore**

**HCS Classification** : Not regulated.

**U.S. Federal regulations** : TSCA 4(a) final test rules: Polytetrafluoroethylene  
 TSCA 8(b) inventory: All components listed.  
 TSCA 12(b) one-time export: Polytetrafluoroethylene  
 TSCA 12(b) annual export notification: Polytetrafluoroethylene

SARA 302/304/311/312 extremely hazardous substances: No substances were found.

SARA 302/304 emergency planning and notification: No substances were found.

SARA 302/304/311/312 hazardous chemicals: Graphite, synthetic

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Graphite, synthetic: Immediate (acute) health hazard

Clean Water Act (CWA) 307: No substances were found.

Clean Water Act (CWA) 311: No substances were found.

Clean Air Act (CAA) 112 accidental release prevention: No substances were found.

Clean Air Act (CAA) 112 regulated flammable substances: No substances were found.

Clean Air Act (CAA) 112 regulated toxic substances: No substances were found.

**SARA 313**

	<b>Product name</b>	<b>CAS number</b>	<b>Concentration</b>
<b>Form R - Reporting requirements</b>	: No substances were found.		
<b>Supplier notification</b>	: No substances were found.		

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

**State regulations** : Pennsylvania RTK: Graphite, synthetic: (generic environmental hazard);  
 Polytetrafluoroethylene: (generic environmental hazard)  
 Massachusetts RTK: Graphite, synthetic; Molybdenum disulfide  
 New Jersey: Molybdenum disulfide  
 California proposition 65: No products were found.

**Canada**

**WHMIS (Canada)** : Not regulated.

DSL : All components listed.

**This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.**



**Mexico**

**Classification** :



**HAZARD RATINGS**

- 4- Extreme
- 3- Serious
- 2- Moderate
- 1- Slight
- 0- Minimal

**International lists**

This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, in Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

**China - Hong Kong**

Authored with regard to:

- "Classification and Mark for commonly used dangerous chemicals" (GB13690-1992)
- "General rules for preparation of a Chemical Safety Data Sheet" (GB16483-2000)
- "The principle of classification of transport packaging groups of dangerous goods" (GB/T15098-94)
- "Classification and code of dangerous goods" (GB6944-86)

**Japan Control Law**

**Poisonous and Deleterious Substances Control Law** : Poison: Not applicable.  
Toxic: Not applicable.  
Specified poisonous: Not applicable.

**Hazard classification** : Not applicable.

**16. Other information**

**Full text of R-phrases referred to in sections 2 and 3 - Korea** : Not applicable.

**Full text of classifications referred to in sections 2 and 3 - Korea** : Not applicable.

**Hazardous Material Information System (U.S.A.)** :

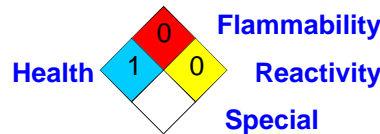
**HMIS RATING**

Health	1
Fire hazard	0
Physical Hazard	0
Personal protection	B

**HAZARD RATINGS**

- 4- Extreme
  - 3- Serious
  - 2- Moderate
  - 1- Slight
  - 0- Minimal
- See section 8 for more detailed information on personal protection.

**National Fire Protection Association (U.S.A.)** :



**References**

- : ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005. - Official Mexican Standards NOM-018-STPS-2000 and NOM-004-SCT2-1994. Brazil NBR 14725:2001.



**History**

Date of issue : 10/30/2006  
Version : 1  
MSDS no. : SGPPL.BR.MSDS.001.2006

**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Version 1  
Authored by **KEMIKA**

Page: 11/11

