

# SAFETY DATA SHEET



Optigear 1100/220

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

**Product identifier** Optigear 1100/220  
**SDS #** 468835  
**Historic SDS #:** 71193  
**Code** 468835-US03

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

**Product use** Gear lubricant  
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

**Manufacturer** BP Lubricants USA Inc.  
1500 Valley Road  
Wayne, NJ 07470  
Telephone: +1-888-CASTROL  
Product Information: +1-877-641-1600

**Supplier** PAN AMERICAN ENERGY LLC, SUCURSAL  
ARGENTINA AV. LEANDRO N. ALEM 1180  
PISO 11 – C1001AAT  
CIUDAD AUTÓNOMA DE BUENOS AIRES.

Consultas Técnicas 0800-888-8088

**EMERGENCY HEALTH INFORMATION:** TELÉFONO PARA EMERGENCIAS (24 HORAS) CIQUIME: 0800-222-2933  
+1-800-424-9300 (CHEMTREC USA)  
+1-703-527-3887 (CHEMTREC outside the US)

### **EMERGENCY TELEPHONE NUMBER**

## SECTION 2: Hazards identification

**Classification of the substance or mixture** TOXIC TO REPRODUCTION (Fertility) - Category 2  
TOXIC TO REPRODUCTION (Unborn child) - Category 2  
AQUATIC HAZARD (ACUTE) - Category 3  
AQUATIC HAZARD (LONG-TERM) - Category 3

### GHS label elements

#### Hazard pictograms



#### Signal word

Warning

#### Hazard statements

H361 - Suspected of damaging fertility or the unborn child.  
H412 - Harmful to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection.  
P273 - Avoid release to the environment.

#### Response

P308 + P313 - IF exposed or concerned: Get medical attention.

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## SECTION 2: Hazards identification

**Storage** P405 - Store locked up.

**Disposal** P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Other hazards which do not result in classification** Defatting to the skin.

## SECTION 3: Composition/information on ingredients

**Substance/mixture** Mixture

Highly refined mineral oil and additives

**Other means of identification** Not available.

| Ingredient name  | CAS number              | %         |
|--|-------------------------|-----------|
| Residual oils (petroleum), solvent-dewaxed   | 64742-62-7              | ≥50 - ≤75 |
| Distillates (petroleum), hydrotreated heavy paraffinic                                   | 64742-54-7              | ≥25 - ≤50 |
| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)                                     | 4259-15-8               | ≤3        |
| molybdenum, bis[O,O-bis(2-ethyl-hexyl)phosphorodithioato-s,s']dioxodi-m-thioxodi,(mo-mo) | 68958-92-9 / 72030-25-2 | ≤3        |
| Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate >5%]                         | 68937-41-7              | <1        |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

## SECTION 4: First aid measures

### Description of necessary first aid measures

|                                   |   |
|-----------------------------------|---|
| <b>Eye contact</b>                | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.   |
| <b>Skin contact</b>               | In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention. |
| <b>Inhalation</b>                 | If inhaled, remove to fresh air. Get medical attention.   |
| <b>Ingestion</b>                  | Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. 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.  |

### Most important symptoms/effects, acute and delayed

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

### Indication of immediate medical attention and special treatment needed, if necessary

|                            |   |
|----------------------------|---|
| <b>Notes to physician</b>  | Treatment should in general be symptomatic and directed to relieving any effects. |
| <b>Specific treatments</b> | No specific treatment.  |

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## SECTION 5: Firefighting measures

### Extinguishing media

**Suitable extinguishing media** Use foam or all-purpose dry chemical to extinguish.

**Unsuitable extinguishing media** Do not use water jet.

### Specific hazards arising from the chemical

Swarf fires - Neat metal working oils may fume, thermally decompose or ignite if they come into contact with red hot swarf. To minimise the generation of red hot swarf ensure that a sufficient flow of oil is correctly directed to the cutting edge of the tool to flood it throughout cutting operations. As an additional precaution swarf should be regularly cleared from the immediate area to prevent the risk of fire. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects.

### Hazardous thermal decomposition products

Combustion products may include the following:  
phosphorus oxides  
metal oxide/oxides  
carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)  
sulfur oxides (SO, SO<sub>2</sub> etc.)

### Special protective actions for fire-fighters

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

### Special protective equipment for fire-fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Contact 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 vapor or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

#### For emergency responders

Entry into a confined space or poorly ventilated area contaminated with vapor, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

### Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and materials for containment and cleaning up

#### Small spill

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilled product. Dispose of via a licensed waste disposal contractor.

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## SECTION 7: Handling and storage

### Precautions for safe handling

#### Protective measures

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid contact of spilled material and runoff with soil and surface waterways. Concentrations of mist, fumes and vapors in enclosed spaces may result in the formation of explosive atmospheres. Excessive splashing, agitation or heating must be avoided. During metal working, solid particles from workpieces or tools will contaminate the fluid and may cause abrasions of the skin. Where such abrasions result in a penetration of the skin, first aid treatment should be applied as soon as reasonably possible. The presence of certain metals in the workpiece or tool, such as chromium, cobalt and nickel, can contaminate the metalworking fluid, as can bacteria, and as a result may induce allergic and other skin reactions, especially if personal hygiene is inadequate.

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## SECTION 8: Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name  | Exposure limits  |
|--|--|
| Residual oils (petroleum), solvent-dewaxed   | <b>Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina).</b><br>TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/Revised: 11/2003 Form: mist<br>STEL: 10 mg/m <sup>3</sup> 15 minutes. Issued/Revised: 11/2003 Form: mist |
| Distillates (petroleum), hydrotreated heavy paraffinic   | <b>Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina).</b><br>TWA: 5 mg/m <sup>3</sup> 8 hours. Issued/Revised: 11/2003 Form: mist<br>STEL: 10 mg/m <sup>3</sup> 15 minutes. Issued/Revised: 11/2003 Form: mist |
| molybdenum, bis[O,O-bis(2-ethyl-hexyl)phosphorodithioato-s,s']dioxodi-m-thioxodi,(mo-mo)<br>Lubricating oils | <b>ACGIH TLV (United States).</b><br>TWA: 0.5 mg/m <sup>3</sup> 8 hours. Form: Soluble<br><b>Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina).</b>  |

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## SECTION 8: Exposure controls/personal protection

TWA: 5 mg/m<sup>3</sup> 8 hours. Issued/Revised:  
11/2003 Form: mist  
STEL: 10 mg/m<sup>3</sup> 15 minutes. Issued/  
Revised: 11/2003 Form: mist

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

### Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

### 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, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### 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 glasses with side shields.

#### Skin protection

##### Hand protection

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

##### Body protection

Use of protective clothing is good industrial practice.

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.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

##### 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.

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## SECTION 8: Exposure controls/personal protection

### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. For protection against metal working fluids, respiratory protection that is classified as "resistant to oil" (class R) or oil proof (class P) should be selected where appropriate. Depending on the level of airborne contaminants, an air-purifying, half-mask respirator (with HEPA filter) including disposable (P- or R-series) (for oil mists less than 50mg/m<sup>3</sup>), or any powered, air-purifying respirator equipped with hood or helmet and HEPA filter (for oil mists less than 125 mg/m<sup>3</sup>). Where organic vapours are a potential hazard during metalworking operations, a combination particulate and organic vapour filter may be necessary. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

## SECTION 9: Physical and chemical properties

### Appearance

|  |   |
|--|---|
| Physical state                               | Liquid.   |
| Color  | Clear Amber.  |
| Odor   | Not available.  |
| Odor threshold                               | Not available.  |
| pH   | Not available.  |
| Melting point                                | Not available.  |
| Boiling point                                | Not available.  |
| Flash point                                  | Open cup: 223°C (433.4°F) [Cleveland.]                    |
| Evaporation rate                             | Not available.  |
| Flammability (solid, gas)                    | Not applicable. Based on - Physical state                 |
| Lower and upper explosive (flammable) limits | Not available.  |
| Vapor pressure                               | Not available.  |
| Vapor density                                | Not available.  |
| Density                                      | <1000 kg/m <sup>3</sup> (<1 g/cm <sup>3</sup> ) at 15.6°C |
| Solubility                                   | insoluble in water.                                       |
| Partition coefficient: n-octanol/water       | Not available.  |
| Auto-ignition temperature                    | Not available.  |
| Decomposition temperature                    | Not available.  |
| Viscosity                                    | Kinematic: 220 mm <sup>2</sup> /s (220 cSt) at 40°C       |

## SECTION 10: Stability and reactivity

|                                    |  |
|------------------------------------|--|
| Reactivity                         | No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.                                |
| Chemical stability                 | The product is stable.   |
| Possibility of hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur. |
| Conditions to avoid                | Avoid excessive heat.  |

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## SECTION 10: Stability and reactivity

**Incompatible materials** Reactive or incompatible with the following materials: oxidizing materials.

**Hazardous decomposition products** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Specific target organ toxicity (repeated exposure)

| Name   | Category   | Route of exposure | Target organs  |
|--|------------|-------------------|----------------|
| Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate >5%] | Category 2 | Not determined    | Not determined |

**Information on the likely routes of exposure** Routes of entry anticipated: Dermal, Inhalation.

#### Potential acute health effects

**Eye contact** No known significant effects or critical hazards.  
**Skin contact** Defatting to the skin. May cause skin dryness and irritation.  
**Inhalation** Vapor inhalation under ambient conditions is not normally a problem due to low vapor pressure.  
**Ingestion** No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** No specific data.  
**Skin contact** Adverse symptoms may include the following:  
irritation  
dryness  
cracking  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations  
**Inhalation** No specific data.  
**Ingestion** Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

#### Delayed and immediate effects and also chronic effects from short and long term exposure

##### Short term exposure

**Potential immediate effects** Not available.

**Potential delayed effects** Not available.

##### Long term exposure

**Potential immediate effects** Not available.

**Potential delayed effects** Not available.

##### Potential chronic health effects

**General** No known significant effects or critical hazards.

**Carcinogenicity** No known significant effects or critical hazards.

**Mutagenicity** No known significant effects or critical hazards.

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## SECTION 11: Toxicological information

|                              |   |
|------------------------------|---|
| <b>Teratogenicity</b>        | Suspected of damaging the unborn child.           |
| <b>Developmental effects</b> | No known significant effects or critical hazards. |
| <b>Fertility effects</b>     | Suspected of damaging fertility.                  |

### Numerical measures of toxicity

#### Acute toxicity estimates

##### **Route**

Not available.

## SECTION 12: Ecological information

### Toxicity

|                              |   |
|------------------------------|---|
| <b>Environmental effects</b> | This material is harmful to aquatic life with long lasting effects. |
|------------------------------|---|

### Persistence and degradability

Not expected to be rapidly degradable.

### Bioaccumulative potential

Not available.

### Mobility in soil

|  |   |
|--|---|
| <b>Soil/water partition coefficient (K<sub>oc</sub>)</b> | Not available.                            |
| <b>Mobility</b>  | Non-volatile. Liquid. insoluble in water. |

|                              |   |
|------------------------------|---|
| <b>Other adverse effects</b> | No known significant effects or critical hazards. |
|------------------------------|---|

## SECTION 13: Disposal considerations

|                         |  |
|-------------------------|--|
| <b>Disposal methods</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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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 spilled material and runoff and contact with soil, waterways, drains and sewers. |
|-------------------------|--|

## SECTION 14: Transport information

|                                       |                                 |                         |
|---------------------------------------|---------------------------------|-------------------------|
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## SECTION 14: Transport information

|                            | ADR/RID        | ADN            | IMDG           | IATA/ICAO      |
|----------------------------|----------------|----------------|----------------|----------------|
| UN number                  | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name    | -              | -              | -              | -              |
| Transport hazard class(es) | -              | -              | -              | -              |
| Packing group              | -              | -              | -              | -              |
| Environmental hazards      | No.            | No.            | No.            | No.            |
| Additional information     | -              | -              | -              | -              |

**Special precautions for user** Not available.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** Not available.

## SECTION 15: Regulatory information

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Other regulations

**Australia inventory (AICS)** All components are listed or exempted.

**Canada inventory** All components are listed or exempted.

**China inventory (IECSC)** All components are listed or exempted.

**Japan inventory (ENCS)** All components are listed or exempted.

**Korea inventory (KECI)** All components are listed or exempted.

**Philippines inventory (PICCS)** At least one component is not listed.

**Taiwan Chemical Substances Inventory (TCSI)** All components are listed or exempted.

**United States inventory (TSCA 8b)** All components are active or exempted.

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## SECTION 15: Regulatory information

### REACH Status

For the REACH status of this product please consult your company contact, as identified in Section 1.

## SECTION 16: Other information

### History

**Date of issue/Date of revision** 11/13/2019.

**Date of previous issue** 08/12/2019.

**Prepared by** Product Stewardship

### Key to abbreviations

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

VOC = Volatile Organic Compound

Varies = may contain one or more of the following 101316-69-2, 101316-70-5, 101316-71-6, 101316-72-7, 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64741-97-5, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-64-9, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1, 74869-22-0, 90669-74-2

✔ Indicates information that has changed from previously issued version.

### Notice to reader

*All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.*

*The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.*

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