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**SECTION 1: Identification of the substance/mixture and of the company****Product Identifier**

Product Name: PowerNox™ 6260  
Chemical Name: Bis(2,4-di-tert-butylphenyl)Pentaerythritol  
Diphosphite

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

Relevant applications identified For industrial use

**Details of the supplier of the safety data sheet**

**Company** Tintoll Performance Materials Co.,Ltd.  
A-703, No. 50 Jialingjiang East St, Nanjing, China  
Email: SDS@TinToll.com

**Emergency Telephone Number:** +86-25-8468-0091

**SECTION 2: Hazardous identification****Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

No need for classification according to GHS criteria for this product.

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

This substance is not classified as dangerous according to Directive 67/548/EEC.

**Label elements**

The product does not require a hazard warning label in accordance with GHS criteria.

**Other hazards** – none

**SECTION 3: Composition/information on ingredients****Substances**

Molecular Formula:  $C_{33}H_{50}O_6P_2$   
Molecular Weight : 604.71 g/mol

Component	Concentration
<b>Bis (2, 4-di-tert-butylphenyl) Pentaerythritol Diphosphite</b>	99% (Other impurities & unreacted component 1%)

CAS-No. 26741-53-7

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EC-No.

247-952-5

**SECTION 4: First aid measures****Description of first aid measures****General advice**

Remove contaminated clothing.

**If inhaled**

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

**In case of skin contact**

Wash thoroughly with soap and water.

**In case of eye contact**

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

**If swallowed**

Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

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

Symptoms: The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

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

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing media**

Dry powder, foam

Unsuitable extinguishing media for safety reasons:

Carbon dioxide.

**Special hazards arising from the substance or mixture**

Hazards during fire-fighting: harmful vapours Evolution of fumes/fog. The substances /groups of substances mentioned can be released in case of fire.

**Advice for firefighters**

Protective equipment for fire-fighting: Fire-fighters should be equipped with self-contained breathing apparatus and turnout gear.

**Further information**

Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

### SECTION 6: Accidental release measures

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

Avoid dust formation. Use personal protective clothing.

#### Environmental precautions

Contain contaminated water/fire fighting water. Do not discharge into drains/surface waters/groundwater.

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

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Contain with dust binding material and dispose of. Avoid raising dust.

#### Reference to other sections

No dangerous substances are released.

### SECTION 7: Handling and storage

#### Precautions for safe handling

Breathing must be protected when large quantities are decanted without local exhaust ventilation. Closed containers should only be opened in well-ventilated areas.

#### Information about protection against explosions and fires:

Avoid dust formation. Take precautionary measures against static discharges.

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

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

#### Specific end users-

A part from the uses mentioned in section 1 no other specific uses are stipulated.

### SECTION 8: Exposure Controls/Personal Protection

#### Control parameters

#### Components with workplace control parameters

#### Exposure controls

#### Appropriate engineering controls

General industrial hygiene practice

#### Personal protective equipment

#### Eye/face protection

Safety glasses with side-shields

#### Hands protection

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Wear chemical resistant protective gloves.

#### Body Protection

Body protection must be chosen based on level of activity and exposure.

#### Respiratory Protection

Breathing protection if breathable aerosols/dust is formed. Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

#### General safety and hygiene measures:

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and Chemical Properties

#### Information on basic physical and chemical properties

Appearance	Form: powder
Colour:	White
Odour	no data available
Odour Threshold	no data available
pH (5% solution in water):	no data available
Melting point/freezing range :	160 – 178 °C
Initial boiling point and boiling range	> 311 °C
Flash Point:	125°C
Evaporation rate	no data available
Flammability (solid, gas) Upper/lower flammability or explosive limits	no data available
Vapour pressure	5 mm Hg
Vapour density	20.9
Relative density	1.1 - 1.2 g/cm <sup>3</sup>
Water solubility	Insoluble
Partition coefficient: noctanol/Water	no data available
Autoignition temperature	> 370 °C
Decomposition temperature	no data available
Viscosity	no data available

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Explosive properties	no data available
Oxidizing properties	no data available

### SECTION 10: Stability And Reactivity

#### Reactivity

No data available

#### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

#### Possibility of hazardous reactions

The product may contain explosive fine dust or such dust may be produced by abrasion during transport or product transfer.

#### Conditions to avoid

Avoid dust formation. Avoid deposition of dust. Avoid all sources of ignition: heat, sparks, and open flame. Avoid electro-static charge.

#### Incompatible materials

Water, strong acids, strong bases, strong oxidizing agents.

#### Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

#### Thermal decomposition:

No decomposition if correctly stored and handled.

### SECTION 11: Toxicological Information

#### Information on toxicological effects

##### Acute toxicity

Virtually nontoxic after a single skin contact. Virtually nontoxic after a single ingestion.

Oral  
 Type of value: LD50  
 Species: Rat  
 Value: > 5,000 mg/kg.

Inhalation  
 Type of value: LC50  
 Species: Rat  
 No data available concerning acute toxicity.

Dermal  
 Type of value: LD50  
 Species: Rabbit  
 Value: > 2,000 mg/kg.

##### Irritation /corrosion

Assessment of irritating effects:

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Not irritating to eyes and skin.

**Skin corrosion/irritation**

Species: Rabbit

Result: non-irritant.

**Serious eye damage/eye irritation**

Species: Rabbit

Result: non-irritant.

**Respiratory or skin sensitization**

Skin sensitizing effects were not observed in animal studies. Species: guinea pig Result: Non-sensitizing.

Method: OECD Guideline 406.

**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

Based on the ingredients there is no suspicion of a carcinogenic effect in humans.

**IARC; NTP, OSHA or ACGIH**

No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.

**Symptoms of Exposure**

The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Potential health effects**

**Skin** No irritant effect.

**Eyes** No irritant effect.

**Additional Information**

RTECS: No data available

**SECTION 12: Ecological Effects**

**Toxicity**



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No data available.

**Assessment of aquatic toxicity:**

Acutely harmful for aquatic organisms. Very toxic to aquatic organisms based on long-term (chronic) toxicity study data. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

**Toxicity to fish**

LC50 (96 h) 70.7 mg/l, Brachydanio rerio (OECD Guideline 203, static) The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. A saturated solution has been tested.

**Aquatic invertebrates**

No data available.

**Aquatic plants**

EC50 (72 h) 97 mg/l (growth rate), Desmodesmus subspicatus (OECD Guideline 201, static) The details of the toxic effect relate to the nominal concentration. The product has low solubility in The test medium. A saturated solution has been tested.

**Persistence and degradability**

The product is virtually insoluble in water and can thus be separated from water mechanically in Suitable effluent treatment plants.

**Bioaccumulative potential**

Significant accumulation in organisms is not to be expected.

**Mobility in soil**

The substance will not evaporate into the atmosphere from the water surface. No data available.

**Results of PBT and vPvB assessment**

No data available

**Other adverse effects**

No data available

**SECTION 13: Disposal considerations****Waste treatment methods****Product**

Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with national, state and local regulations.

**Contaminated packaging**

Dispose of in accordance with national, state and local regulations. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

**SECTION 14: Transport Information**

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### UN number

ADR/RID: 3077

IMDG: 3077

IATA:3077

### UN proper shipping name

ADR/RID: Environmentally Hazardous Substance, Solid, N.O.S.  
(Contains 2,4-Di-Tert-Butylphenol)

IMDG: Environmentally Hazardous Substance, Solid, N.O.S.  
(Contains 2,4-Di-Tert-Butylphenol) IATA:

Not classified: Environmentally Hazardous Substance, Solid, N.O.S.  
(Contains 2,4-Di-Tert-Butylphenol)

### Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

### Packaging group

ADR/RID: III

IMDG: III

IATA: III

### Environmental hazards

ADR/RID: YES

IMDG Marine pollutant: YES

IATA: YES

### Special precautions for user

No data available

## SECTION 15: Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

No data available

### Chemical Safety Assessment

No data available

## SECTION 16: Other Information

### Further information

It must be recognized that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.