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

Product Name: PowerNox™ 4120  
Chemical Name: Pentaerythrityl Tetrakis (3-laurylthiopropionate)

**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]**

The substance is not classified according to the Globally Harmonized System (GHS).

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

This substance is not classified 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:  $C_{65}H_{124}O_8S_4$   
Molecular Weight : 358.55 g/mol

Component	Concentration
<b>Pentaerythrityl Tetrakis (3-laurylthiopropionate)</b>	Min. 98.0 % ( Other impurities & unreacted component 2%)
CAS-No.	29598-76-3
EC-No.	249-720-9

**SECTION 4: First aid measures**

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**Description of first aid measures****General advice**

Take affected persons out of danger area and lay down.

**If inhaled**

Supply fresh air; consult doctor in case of complaints.

**In case of skin contact**

Immediately wash with water and soap and rinse thoroughly.

**In case of eye contact**

Rinse opened eye for several minutes under running water.

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

No data available.

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

If symptoms persist consult doctor.

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

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

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

Carbon monoxide (CO)

**Advice for firefighters**

Wear self-contained respiratory protective device.

**Further information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Wear protective clothing. Avoid formation of dust. Keep away from ignition sources.

**Environmental precautions**

Do not allow product to reach sewage system or any water course.

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

Pick up mechanically. Dispose of the collected material according to regulations.

**Reference to other sections**

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No dangerous substances are released.

**SECTION 7: Handling and storage****Precautions for safe handling**

Prevent formation of dust. Any deposit of dust which cannot be avoided must be regularly removed. Ensure good ventilation/exhaustion at the workplace.

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

Dust can combine with air to form an explosive mixture. Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

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

Store only in the original receptacle.

**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**

No data available.

**Personal protective equipment****Eye/face protection**

Safety glasses

**Hands protection**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Body Protection**

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

**Respiratory Protection**

Protective work clothing

**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: crystalline powder
Colour:	White
Odour	Sweetish
Odour Threshold	no data available
pH:	< 1.0 mg KOH/g
Melting point/freezing point	46.0 – 54 °C
Initial boiling point and boiling range	no data available
Flash Point:	250°C (482 °F)
Evaporation rate	no data available
Flammability (solid, gas) Upper/lower flammability or explosive limits	Product is not flammable.
Vapour pressure	133 hPa (100 mm Hg)
Vapour density	no data available
Relative density	133 hPa (100 mm Hg).
Water solubility	< 0.01
Partition coefficient: noctanol/Water	no data available
Autoignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

#### Other safety information

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### SECTION 10: Stability And Reactivity

**Reactivity**

No data available

**Chemical stability**

No data available

**Possibility of hazardous reactions**

No data available

**Conditions to avoid**

No data available

**Incompatible materials**

Strong oxidizing agents

**Hazardous decomposition products**

No dangerous decomposition products known.

**Thermal decomposition:**

No decomposition if used according to specifications.

### SECTION 11: Toxicological Information

**Information on toxicological effects**

**Acute toxicity**

Oral LD50 > 15000 mg/kg (Rat)

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Symptoms of Exposure**

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

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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**

**Aquatic toxicity:**

No further relevant information available.

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No further relevant information available.

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

No data available

**Other adverse effects**

Generally not hazardous for water

**SECTION 13: Disposal considerations**

**Waste treatment methods**

**Product**

Must be specially treated adhering to official regulations.

**Contaminated packaging**

Disposal must be made according to official regulations.

**SECTION 14: Transport Information**

**UN number**

ADR/RID: -

IMDG: -

IATA: -



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**UN proper shipping name**

ADR/RID: Not classified

IMDG: Not classified

IATA: Not classified

**Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

**Packaging group**

ADR/RID: -

IMDG: -

IATA: -

**Environmental hazards****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.