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

**Product Code:** PowerSorb™ 1084  
**Product name:** [2,2'-Thiobis(4-t-octylphenolato)]-n-butylamine nickel  
**CAS-No.:** 14516-71-3  
**Manufacturer:** Tintoll Performance Materials Co.,Ltd.  
**Post Address:** A703,No.50 Jialingjiang East St,Nanjing,China  
 Email: SDS@TinToll.com  
**Emergency Telephone Number:** +86-25-8468-0091  
**Use of Substance:** For Industrial Use

### SECTION 2: Hazardous identification

#### Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 4), H332

Acute toxicity, Dermal (Category 4), H312

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H302 + H312 + H332

Harmful if swallowed, in contact with skin or if inhaled

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/ protective clothing.  
 P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

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|   |  |
|---|--|
|   | for breathing.   |
| P312  | Call a POISON CENTER/doctor if you feel unwell.                            |
| P322  | Specific measures (see supplemental first aid instructions on this label). |
| P330  | Rinse mouth.   |
| P363  | Wash contaminated clothing before reuse.                                   |
| P501  | Dispose of contents/ container to an approved waste disposal plant.        |
| <b>Hazards not otherwise classified (HNOC) or not covered by GHS - none</b> |  |

### SECTION 3: Composition/information on ingredients

#### Substances

Formula : C<sub>32</sub>H<sub>50</sub>NNiO<sub>2</sub>S

Molecular Weight: 572.51 g/mol

CAS-No. : 14516-71-3

EC-No. : 238-523-3

#### Hazardous components

| Component  | Classification                   | Concentration |
|--|----------------------------------|---------------|
| [2,2'-Thiobis(4-t-octylphenolato)]-n-butylamine nickel |                                  |               |
|  | Acute Tox. 4; H302 + H312 + H332 | <= 100 %      |

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4: First aid measures

#### Description of first aid measures

##### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

##### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

##### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11

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

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no data available

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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides, nitrogen oxides (NOx)

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**

no data available

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Reference to other sections**

For disposal see section 13.

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

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

For precautions see section 2

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

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Keep container tightly closed in a dry and well-ventilated place.

**Specific end use(s)**

Apart 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**

| Component  | CAS-No.    | Value   | Control parameters         | Basis                                  |
|--|------------|---|----------------------------|--|
| [2,2'-Thiobis(4-t-octylphenolato)]-n-butylamine nickel | 14516-71-3 | TWA   | 0.015000 mg/m <sup>3</sup> | USA. NIOSH Recommended Exposure Limits |
|  | Remarks    | Potential Occupational Carcinogen<br>See Appendix A |                            |  |
|  |            | TWA   | 0.015 mg/m <sup>3</sup>    | USA. NIOSH Recommended Exposure Limits |
|  |            | Potential Occupational Carcinogen<br>See Appendix A |                            |  |

**Exposure controls**

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

**Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or



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CEN (EU).

### Control of environmental exposure

Do not let product enter drains.

## SECTION 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

|   |                   |
|---|-------------------|
| Appearance                                      | Form: solid       |
| Odour   | no data available |
| Odour Threshold                                 | no data available |
| pH  | no data available |
| Melting point/freezing point                    | no data available |
| Initial boiling point and boiling range         | no data available |
| Flash point                                     | no data available |
| Evaporation rate                                | no data available |
| Flammability (solid, gas)                       | no data available |
| Upper/lower flammability<br>or explosive limits | no data available |
| Vapour pressure                                 | no data available |
| Vapour density                                  | no data available |
| Relative density                                | no data available |
| Water solubility                                | no data available |
| Partition coefficient: n<br>octanol/water       | no data available |
| Auto-ignition 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

no data available

## SECTION 10: Stability And Reactivity

### Reactivity

no data available

### Chemical stability

Stable under recommended storage conditions.

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### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Incompatible materials

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx),

Sulphur oxides, Nickel/nickel oxides

Other decomposition products – no

In the event of fire: see section 5

## SECTION 11: Toxicological Information

### Information on toxicological effects

#### Acute toxicity

no data available

Dermal: no data available

no data available

#### 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

IARC: 1 - Group 1: Carcinogenic to humans ((Butylamine)[[2,2'-thiobis[4-(1,1,3,3-tetramethylbutyl)phenolato]](2-)-O,O',S]nickel)

IARC: 1 - Group 1: Carcinogenic to humans ((Butylamine)[[2,2'-thiobis[4-(1,1,3,3-tetramethylbutyl)phenolato]](2-)-O,O',S]nickel)

NTP: Known to be human carcinogen ((Butylamine)[[2,2'-thiobis[4-(1,1,3,3-tetramethylbutyl)phenolato]](2-)-O,O',S]nickel)

NTP: Known to be human carcinogen ((Butylamine)[[2,2'-thiobis[4-(1,1,3,3-tetramethylbutyl)phenolato]](2-)-O,O',S]nickel)

OSHA: No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**SECTION 12: Ecological Effects****Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

no data available

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

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

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**Contaminated packaging**

Dispose of as unused product.

**SECTION 14:Transport Information**

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**SECTION 15:Regulatory Information**

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

| CAS-No.    | Revision Date |
|------------|---------------|
| 14516-71-3 | 2007-07-01    |

[2,2'-Thiobis(4-t-octylphenolato)]-n-butylamine nickel

**SARA 311/312 Hazards**

Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

| CAS-No.    | Revision Date |
|------------|---------------|
| 14516-71-3 | 2007-07-01    |

[2,2'-Thiobis(4-t-octylphenolato)]-n-butylamine nickel

**New Jersey Right To Know Components**

| CAS-No.    | Revision Date |
|------------|---------------|
| 14516-71-3 | 2007-07-01    |

[2,2'-Thiobis(4-t-octylphenolato)]-n-butylamine nickel

**California Prop. 65 Components**

WARNING! This product contains a chemical known to the State of California to cause cancer.

| CAS-No.    | Revision Date |
|------------|---------------|
| 14516-71-3 | 2007-09-28    |

[2,2'-Thiobis(4-t-octylphenolato)]-n-butylamine nickel





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### SECTION 16: Other Information

**Full text of H-Statements referred to under sections 2 and 3.**

|                       |  |
|-----------------------|--|
| Acute Tox.            | Acute toxicity   |
| H302                  | Harmful if swallowed.                                    |
| H302 + H312 +<br>H332 | Harmful if swallowed, in contact with skin or if inhaled |
| H312                  | Harmful in contact with skin.                            |

**HMIS Rating**

|                        |   |
|------------------------|---|
| Health hazard:         | 2 |
| Chronic Health Hazard: | * |
| Flammability:          | 0 |
| Physical Hazard        | 0 |

**NFPA Rating**

|                    |   |
|--------------------|---|
| Health hazard:     | 2 |
| Fire Hazard:       | 0 |
| Reactivity Hazard: | 0 |

**Any other precaution**

The information herein is made based on references, information and data available at present. It maybe revised when new information is available.

The descriptions herein are for normal handling. For special application, make safety provisions suitable to them prior to use.