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

**Product Code:** PowerStab™ NDBC  
**Product name:** Nickel(II) Dibutyldithiocarbamate  
**CAS-No.:** 13927-77-0  
**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

**PHYSICAL HAZARDS** Not classified

#### HEALTH HAZARDS

**Respiratory sensitization** Category 1

**Skin sensitization** Category 1

**Carcinogenicity** Category 1A

**Specific target organ toxicity**

**Repeated exposure [Category 1]**

Respiratory system

#### ENVIRONMENTAL HAZARDS

**Long-term aquatic hazard** Category 4

**Label elements**

**Pictograms or hazard symbols**



Signal word

Danger

Hazard statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

May cause cancer

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Causes damage to organs through prolonged or repeated exposure : Respiratory system

May cause long lasting harmful effects to aquatic life

### Precautionary statements

#### [Prevention]

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust, fume, mist, vapors or spray.

Avoid release to the environment.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

Wash hands and face thoroughly after handling.

Wear respiratory protection.

Wear protective gloves, protective clothing, face protection.

#### [Response]

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs:

Take off contaminated clothing. And wash it before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

IF exposed or concerned: Get medical advice or attention.

**[Storage]** Store locked up.

**[Disposal]** Dispose of contents and container in accordance with local, regional, national regulations.

## SECTION 3: Composition/information on ingredients

### Substances

Formula: C<sub>18</sub>H<sub>36</sub>N<sub>2</sub>NiS<sub>4</sub>

CAS-No. : 13927-77-0

Component	Content
Nickel(II) Dibutyldithiocarbamate	>97.0%(T)

## SECTION 4: First aid measures

### If inhaled

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical advice/attention.

### In case of skin contact

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

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**In case of eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion**

Get medical advice/attention if you feel unwell. Rinse mouth.

**Protection of first-aiders**

A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

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

Dry chemical, foam, water spray, carbon dioxide.

**Precautions for firefighters**

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

**Special protective equipment for firefighters**

When extinguishing fire, be sure to wear personal protective equipment

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

Use extra personal protective equipment (self-contained breathing apparatus).

Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

**Environmental precautions:****Methods and materials for containment and cleaning up:**

Prevent product from entering drains. Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

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

Handling is performed in a well-ventilated place. Wear suitable protective equipment. Prevent dispersion

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of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.

### Advice on safe handling

Avoid all contact!

### Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep container tightly closed. Store in a cool and dark place. Store locked up.

Store away from incompatible materials such as oxidizing agents.

### Packaging material

Comply with laws.

## SECTION 8: Exposure Controls/Personal Protection

### Engineering controls

Install a closed system or local exhaust. Also install safety shower and eye bath

### Exposure limits

### Personal protective equipment

#### Respiratory protection

Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

#### Hand protection

Impervious gloves

#### Eye protection

Safety goggles. A face-shield, if the situation requires.

#### Skin and body protection

Impervious protective clothing. Protective boots, if the situation requires.

## SECTION 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

Physical state (20°C):	Solid
Form	Crystal – Powder
Odour	Yellow green - Deep green
Odour Threshold	no data available
pH	no data available
Melting point/freezing point	89°C
Initial boiling point and boiling range	no data available
Flash point	no data available

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Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	Very slightly soluble
Partition coefficient: n 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
<b>Other safety information</b>	
no data available	

### SECTION 10: Stability And Reactivity

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

No special reactivity has been reported.

#### Incompatible materials

Oxidizing agents

#### Hazardous decomposition products

Carbon monoxide, carbon dioxide etc

### SECTION 11: Toxicological Information

#### Acute toxicity

orl-rat LD50:17 g/kg

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitization

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No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

ori-mus TDLo:22 mg/kg/78W-I

scu-mus TDLo:1000 mg/kg

**IARC** = Group 1 (Carcinogenic to humans)

**NTP** = a (Known to be carcinogens)

**Reproductive toxicity**

No data available

**Target organ(s)**

No data available

### SECTION 12: Ecological Effects

**Ecotoxicity:**

**Fish:** No data available

**Crustacea:** No data available

**Algae:** No data available

**Persistence / degradability:** 2 - 4 % (by BOD)

**Bioaccumulative**

**potential(BCF):**

No data available

**Mobility in soil**

**Log Pow:** No data available

**Soil adsorption (Koc):** No data available

**Henry's Law (PaM<sup>3</sup>/mol):** No data available

### SECTION 13: Disposal considerations

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system.

Observe all federal, state and local regulations when disposing of the substance.

### SECTION 14: Transport Information



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**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**SECTION 15:Regulatory Information**

**Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011):** Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

**SECTION 16:Other Information****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.