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

**Product Code:** PowerStab™ 7794  
**Product name:** Hindered Amine Light stabilizer  
**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****Emergency Overview:**

White to light yellow powder

May cause eye irritation.

May cause respiratory tract irritation.

Dusts can form an explosive mixture with air.

**Relevant Routes of Exposure:**

Ingestion, inhalation and skin absorption

**Signs and Symptoms of Overexposure:**

General reddening and irritation to the skin and eyes, mucous membrane irritation, upper respiratory tract irritation.

**Medical Conditions Generally****Aggravated By Exposure:**

None reported

**Potential Health Effects:** See Section XI for additional information.

**Eyes:** May cause eye irritation.

**Skin:** Not expected to be a hazard in normal industrial use. As with any dust, mechanical irritation is possible to the skin. May cause skin irritation after repeated exposure.

**Ingestion:** Not expected to be a hazard in normal industrial use.

Long term oral exposure may result in liver damage.

Long term overexposure may result in spleen effects.

Long term overexposure may produce blood effects.

Long term overexposure may produce lymph node effects..Long term oral xposure may cause developmental effects.

**Inhalation:** May cause respiratory tract irritation.

**Chronic Health Effects:** May cause liver, lymph node, blood, spleen and developmental effects based on animal data.

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**Carcinogenicity:**

**NTP:** No

**ACGIH:** No

**IARC:** No

**OTHER:** No

**OSHA:** No

**Additional Information**

No information available

### SECTION 3: Composition/information on ingredients

**INGREDIENT NAME**

**CAS NO.**

UV STABILIZER 944

70624-18-9 50%

UV STABILIZER 770

52829-07-9 50%

15 mg/m<sup>3</sup> (PNOR) (OSHA PEL TWA)

Not established (OSHA PEL STEL)

Not established (OSHA PEL CEIL)

10 mg/m<sup>3</sup> (PNOS) (ACGIH TLV TWA)

Not established (ACGIH TLV STEL)

Not established (ACGIH TLV CEIL)

\*Indented chemicals are components of previous ingredient.

**Additional Information**

5 mg/m<sup>3</sup> Respirable Dust Level (OSHA)

3 mg/m<sup>3</sup> Respirable Dust Level (ACGIH)

PNOR = Particulates Not Otherwise Regulated

PNOS = Particulates Not Otherwise Specified

### SECTION 4: First aid measures

**Eyes:** Flush with large volumes of water for at least 15 minutes. Get medical attention.

**Skin:** Wash with large volumes of soap and water for at least 15 minutes. If irritation develops, get medical attention.

**Ingestion:** If conscious, give person 1 to 2 glasses of water. Get medical attention immediately.

**Inhalation:** Remove person to fresh air. Get medical attention.

**Antidotes:** No information available

**Notes to Physicians and/or Protection for First-Aiders:**

No information available

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**Additional Information**

No information available

**SECTION 5: Firefighting measures****Flammable Limits in Air (% byVolume):** Not available**Flash Point:** >160 degrees C**Autoignition Temperature:** 390 degrees C BAM**Extinguishing Media:** All conventional media are suitable.**Fire Fighting Instructions:** Wear a self-contained breathing apparatus and protective clothing to prevent skin and eye contact in fire situations.**Unusual Fire and Explosion Hazards:**

Under fire conditions, toxic and irritating fumes may be emitted.

Dusts can form an explosive mixture with air.

**Flammability Classification:** Combustible dust**Known or Anticipated Hazardous****Products of Combustion:**

Oxides of nitrogen

Carbon monoxide and carbon dioxide

**Additional Information**

No information available

**SECTION 6: Accidental release measures****Accidental Release Measures:** Shut off all sources of ignition. Wearing appropriate personal protective equipment, carefully sweep up material and place in suitable labeled containers for disposal. Use only non-sparking tools. Avoid creating a dusting condition.**Personal Precautions:** See Section VIII.**Environmental Precautions:** Avoid releasing to the environment.**Additional Information**

No information available.

**SECTION 7: Handling and storage****Handling:**

Use appropriate personal protection equipment.

Avoid eye, skin and clothing contact.

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Avoid breathing dust.  
Avoid repeated and prolonged contact.  
Prevent buildup of static electricity.  
Keep away from heat, sparks and flame.  
All equipment should be properly grounded.  
Avoid creating a dusting situation.

**Storage:**

Store in a cool, dry, well-ventilated area away from incompatible materials.  
Store away from heat, sparks, and flame.  
Keep container tightly closed.  
Recommend plastic (polyethylene) packaging.

**Other Precautions:** No information available**Additional Information**

No information available

**SECTION 8: Exposure Controls/Personal Protection****Engineering Controls:** No information available**Ventilation Requirements:**

Use local exhaust to minimize dusting.  
Use mechanical ventilation for general area control.

**Personal Protective Equipment:****Eye/Face Protection:**

Chemical safety glasses with side shields or chemical safety goggles

**Skin Protection:**

Chemical resistant gloves  
Clothing designed to minimize skin contact

**Respiratory Protection:**

Wear a NIOSH/MSHA approved dust respirator if dusting occurs, or there is potential for airborne exposures to exceed established threshold values. Consult the OSHA respiratory protection information located at 29CFR 1910.134 and the American National Standard Institute's Practices of Respiratory Protection Z88.2.

**Other Protective Clothing or Equipment:**

No information available

**Exposure Guidelines:** See Section II.**Work Hygienic Practices:**

Wash thoroughly after handling.  
Wash contaminated clothing before reuse.

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### Additional Information

No information available

## SECTION 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

Appearance	White to light yellow powder
Percent Volatile:	Not available
Boiling Point:	Not available
pH Value:	6.8 (Aqueous dispersion at 1%)
Bulk Density:	Not available
pH Concentration:	Not available
Color:	White to light yellow
Physical State:	Solid
Decomposition Temperature:	>350 degrees C
Reactivity in Water:	Not water reactive
Evaporation Rate:	Not available
Saturated Vapor Concentration:	Not available
Freezing Point:	Not available
Softening Point:	Not available
Heat Value:	Not available
Solubility in Water:	<0.001 g/L at 20 degrees C
Melting Point:	>50 degrees C. Specific Gravity or Density (Water=1): 1.01 at 20 degrees C
Molecular/Chemical Formula:	Polymer
Vapor Density:	Not available
Vapor Pressure:	~5E-12 mmHg at 25 degrees C
Octanol/Water Partition Coefficient:	2.44 (log Pow)
Viscosity:	Not available
Odor:	None
Volatile Organic Compounds:	Not available
Odor Threshold:	Not available
Water/Oil Distribution Coefficient:	Not available
Particle Size:	Not available
Weight Per Gallon:	Not available

### Additional Information

No information available

**SECTION 10: Stability And Reactivity**

**Stability:** Stable under normal conditions of handling and use.

**Conditions to Avoid:**

High temperatures, heat, open flames, static electricity and other sources of Ignition

Decomposes at temperatures >350 degrees C.

**Incompatibility With Other Materials:**

Strong oxidizers

Strong acids

Strong bases

**Hazardous Decomposition Products:**

Thermal decomposition may produce the following:

Oxides of nitrogen

Carbon monoxide and carbon dioxide

**Hazardous Polymerization:**

Will not occur

**Conditions to Avoid:** None

**Additional Information**

No information available

**SECTION 11: Toxicological Information**

**Toxicological Information:**

The toxicological properties of this material have not been fully determined.

This material was found to be an eye irritant, but not a skin irritant, in rabbits. In hairless mice, no skin photo-irritant potency was found with a 3% solution. In a guinea pig maximization study, sensitization was not observed; and in a guinea pig photosensitivity test, no skin photo-sensitization was observed with a 0.1% solution. In various 1 to 4 hour inhalation exposures in rats, it was found that respiratory irritation can occur in the range of 0.2 - 0.6 mg/L. Deaths have occurred >2 mg/L. In a teratology study, pregnant rats were dosed by gavage from day 6 to day 15 of pregnancy at 0, 200, 600 and 1,200 mg/kg. Offspring in the high dose group displayed a delay of skeletal maturation. No other significant effects were seen. In a two generation reproduction study, rats were dosed at 400, 2,000 and 4,000 ppm in the diet. No study related effects were noted in the offspring. However, toxic effects at the 2,000 and 4,000 ppm levels observed in parents included immunoresponse related effects such as reddened and/or swollen ears, and/or extremities, enlarged lymph nodes, and/or findings in the kidneys, spleen and/or liver. The no observable effect level (NOEL) for effects on the offspring was 4,000 ppm and 400 ppm for parental toxicity.

This material was not found to be mutagenic in the Ames test, a nucleus anomaly test or sister chromatid exchange studies on somatic cells.

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Feeding studies involving rats and dogs at dietary levels up to 10,000 ppm for up to a 6 month period produced liver, mesenteric lymph node, spleen and blood effects. In a 24 month study in rats, no evidence of carcinogenicity was observed at dose levels of 5, 30, and 200 mg/kg. Other acute and chronic health hazards, as well as target organs, are unknown. As with all dusts, inhalation of air concentration levels above the PNOR may cause irritation and adverse lung effects.

### Additional Information

No information available

## SECTION 12: Ecological Effects

### Ecological Information:

The following ecological information is offered:

LC50 in rainbow trout (96H) = 0.35 ppm

LC50 in bluegill (96H) = 0.59 ppm

EC50 in Daphnia magna (24H) = 55 ppm

EC50 in green algae (0 - 72 ) >100 mg/L

IC20, 50, 80 on respiration of aerobic waste bacteria >100 mg/L

This product is not biodegradable in the modified Sturm test with 0 - 1% in 28

Days Avoid releasing to the environment.

### Additional Information

No information available

## SECTION 13: Disposal considerations

**Disposal Considerations:** Dispose of waste at an approved chemical disposal facility in compliance with all current Local, State/Province, Federal/Canadian laws and regulations.

### Additional Information

No information available

## SECTION 14: Transport Information

### UN number

ADR/RID: -

MDG: -

IATA: -

### UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

### Transport hazard class(es)





**SECTION 16:Other Information****NFPA Codes:**

Health: NR

Flammability: NR

Reactivity: NR

Other: NR

**HMIS Codes:** \* indicates chronic health hazard.

Health: NR

Flammability: NR

Reactivity: NR

Protection: NR

**Label Statements:** Not available**Other Information:** Abbreviations:

(L) = Loose bulk density in g/ml

LOEC = Lowest observed effect concentration

MATC = Maximum acceptable toxicant concentration

NA = Not available

N/A = Not applicable

NL = Not limited.NOAEL = No observable adverse effect level

NOEC = No observed effect concentration

NOEL = No observable effect level

NR = Not rated

(P) = Packed bulk density in g/ml

PNOR = Particulates Not Otherwise Regulated

PNOS = Particulates Not Otherwise Specified

REL = Recommended exposure limit

TS = Trade secret

**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.