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

**Product Code:** PowerSorb™ 320  
**Product name:** 2-(2'-Hydroxy-3',5'-di-t-butylphenyl) benzotriazole  
**CAS-No.:** 3846-71-7  
**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**

GHS Label Elements

**Signal Word: Warning****Hazard Codes:**

H302 - Harmful if swallowed. (Acute toxicity, oral, category 4)

H335 - May be irritating to mucous membrane and upper respiratory system. (Specific target organ toxicity, single exposure; Respiratory tract irritation, category 3)

**Precautionary Codes:**

P202 - This product should only be used by persons trained in the safe handling of hazardous chemicals.

P235 - Store in a cool dry place.

P262 - Do not get in eyes, on skin or clothing.

P264 - Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

Other hazards

Results of PBT and vPvB assessment

PBT: Not determined

vPvB: Not determined

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

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**Substances**

Molecular Weight: 323.43 g/mol

CAS-No. : 3846-71-7

EC-No. : 223-346-6

CAS	Description	Concentration
3846-71-7	2-(2'-Hydroxy-3',5'-di-t-butylphenyl) benzotriazole	Min 95%

**SECTION 4: First aid measures****Description of first aid measures****General information:** Take affected persons out of danger area and lay down.**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Remove contact lenses, if present and easy to do. Continue rinsing.

**After swallowing:**

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

**Information for doctor:****Most important symptoms and effects, both acute and delayed** No further relevant information available.**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing agents:**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use firefighting measures that suit the environment.

**For safety reasons unsuitable extinguishing agents:** Water with full jet**Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

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Carbon monoxide

Carbon dioxide

Nitrogen oxides (NOx)

**Advice for firefighters**

**Protective equipment:** Wear self-contained respiratory protective device.

**Additional information**

Cool endangered receptacles with water spray.

Collect contaminated firefighting 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 to enter sewers/ surface or ground water.

**Methods and material for containment and cleaning up:**

Pick up mechanically.

Dispose of the collected material according to regulations.

**Reference to other sections** No dangerous substances are released.

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

**Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

**Information about storage in one common storage facility:** Store away from oxidizing agents.

**Further information about storage conditions:** Store in dry conditions.

**Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure Controls/Personal Protection

#### Engineering Controls/PPE

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available. (P264)

#### General Hygiene Considerations

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

Material should be handled or transferred in an approved fume hood or with adequate ventilation.

Compatible chemical-resistant protective gloves must be worn to prevent skin contact. Inspect gloves prior to use.

Use proper glove removal technique to avoid contact with product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash hands thoroughly and dry.

Use eye protection tested and approved under the appropriate government standards such as NIOSH (US) or EN 166 (EU).

All recommendations are advisory only and must be evaluated by an industrial hygienist and/or safety officer familiar with the specific situation of anticipated use, such as concentration and amount of the substance in the workplace.

Any recommendation should not be construed as offering an approval for any specific use of the product.

### SECTION 9: Physical and Chemical Properties

#### Information on basic physical and chemical properties

Physical state	powder
Color	light yellow
Odor	Odorless
Odor threshold	no data available
pH value	no data available
Melting point	152 - 155 °C (306 - 311 °F)
Boiling point	no data available
Flash point	215 °C (419 °F)

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Evaporation rate	no data available
Flammability (solid, gas)	Product is not flammable.
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Density	no data available
Relative density	no data available
Water solubility	Insoluble
Partition coefficient: n octanol/water	no data available
<b>Other safety information</b>	
no data available	

### SECTION 10: Stability And Reactivity

#### Reactivity

#### Chemical stability

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological Information

#### Information on toxicological effects

#### Acute toxicity:

LD/LC50 values that are relevant for classification:		
Oral	LD50	> 2000 mg/kg (Rat)

#### Primary irritant effect:

**on the skin:** No irritant effect.

**on the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

#### Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according

to our experience and the information provided to us.

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The substance is not subject to classification.

**Carcinogenic categories**

**IARC (International Agency for Research on Cancer)** Substance is not listed.

**NTP (National Toxicology Program)** Substance is not listed.

**OSHA-Ca (Occupational Safety & Health Administration)** Substance is not listed.

### SECTION 12: Ecological Effects

**Toxicity**

<b>Aquatic toxicity:</b>	
EC50 (24h)	> 100 mg/L (Daphnia)
EC50 (3h)	92 mg/L (Bacteria)

**Persistence and degradability** No further relevant information available.

**Behavior in environmental systems:**

**Bioaccumulative potential**

No further relevant information available.

**Mobility in soil**

No further relevant information available.

**Ecotoxicological effects:**

**Remark:**

No effects at its water solubility.

Tested above the maximum solubility.

**Additional ecological information:**

**General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

*Do not allow product to reach ground water, water course or sewage system.*

**Results of PBT and vPvB assessment**

**PBT:** Not determined

**vPvB:** Not determined

**Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

**Waste treatment methods**

**Recommendation:** Must be specially treated adhering to official regulations.

**Uncleaned packagings**

**Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport Information

**UN number**

ADR/RID: -

IMDG: -

IATA: -

**UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

IATA Not dangerous goods

**Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

**Packaging group**

ADR/RID: -

IMDG: -

IATA: -

**Environmental hazards**

ADR/RID: -

IMDG: -

IATA: -

**Special precautions for user**

No data available

**Further information**

Not classified as dangerous in the meaning of transport regulations.

### SECTION 15: Regulatory Information

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

**Section 355 (extremely hazardous substances):** Substance is not listed.

**Section 313 (Specific toxic chemical listings):** Substance is not listed.

**TSCA (Toxic Substances Control Act):** Substance is listed.

**Proposition 65**

**Chemicals known to cause cancer:** Substance is not listed.

**Chemicals known to cause reproductive toxicity for females:** Substance is not listed.

**Chemicals known to cause reproductive toxicity for males:** Substance is not listed.

**Chemicals known to cause developmental toxicity:** Substance is not listed.

**Cancerogenity categories**

**EPA (Environmental Protection Agency)** Substance is not listed.

**TLV (Threshold Limit Value established by ACGIH)** Substance is not listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.

**Chemical Inventories:**

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Australia - AICS

Canada - DSL

EU - EINECS

China - IECSC

Japan - ENCS

New Zealand - NZIoC

Korea - ECL

USA - TSCA

Philippines - PICCS

### 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.