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

Product Code: PowerSorb™ 1000
Product name: 2-(2-Hydroxy-5-methylphenyl)benzotriazole
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

Classification according to Regulation (EC) No 1272/2008

Skin irritation (Category 1), H317

Chronic aquatic toxicity (Category 4), H413

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

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

Xi Irritant R43, R53

For the full text of the R-phrases mentioned in this Section, see Section 16

Label elements

Labelling according Regulation (EC) No 1272/2008



Pictogram

Signal word

Warning

Hazard statement(s)

H317

May cause an allergic skin reaction.

H413

May cause long lasting harmful effects to aquatic Life.

Precautionary statement(s)

P280

Wear protective gloves

Supplemental Hazard

none

Statements

Other hazards - none

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

Formula :	C ₁₃ H ₁₁ N ₃ O
Molecular Weight :	225.25 g/mol
CAS-No.:	2440-22-4
EC-No.:	219-470-5

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
2-(2H-Benzotriazol-2-yl)-p-cresol	Skin Sens. 1; Aquatic Chronic 4 ; H317; H413	-

Hazardous ingredients according to Directive 1999/45/EC

Component	Classification	Concentration
2-(2H-Benzotriazol-2-yl)-p-cresol	XI , R43- R53	-

For the full text of the H-Statements and R-Phrases 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.

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

Flush eyes with water as a precaution.

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

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(see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

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 (NO_x)

Advice for firefighters

Wear self contained breathing apparatus for fire fighting 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 vapors, mist or gas. Ensure adequate ventilation. 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.

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

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

Specific end uses

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**

Contains no substances with occupational exposure limit values.

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**

Face shield and safety glasses. 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

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 CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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Discharge into the environment must be avoided.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Form: powder Colour: light yellow
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting point/freezing point	Melting point/range: 125.5 – 129.5 °C - lit.
Initial boiling point and boiling range	225 °C at 13 hPa
Flash point	no data available
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	1.3855 g/cm ³ at 20 °C
Water solubility	0.00017 g/l at 20 °C-OECD Test Guideline 105-insoluble
Partition coefficient: n-octanol/Water	log Pow: 4.20 at 25°C
Auto-ignition Temperature	no data available
Decomposition temperature	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.

Possibility of hazardous reactions

No data available

Conditions to avoid

No data available

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Other decomposition products—no data available

In the event of fire: see section 5

SECTION 11: Toxicological Information**Information on toxicological effects****Acute toxicity**

LD50 Oral-rat-male and female - 10,000 mg/kg

LC50 Inhalation-rat-male and female – 4h - >590 mg/m³

(OECD Test Guideline 403)

Skin corrosion/irritation

Skin-rat

Result: No skin irritation- 24h

Serious eye damage/eye irritation

Eyes-rabbit

Result: No eye irritation

(OECD Test Guideline 405)

Respiratory or skin sensitization

-guinea pig

Result: May cause sensitization by skin contact.

(OECD Test Guideline 406)

Germ cell mutagenicity

Ames test

S. typhimurium

Result: negative

Mutagenicity (micronucleus test)

Hamster- male and female

Result: negative

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Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

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: GO6860000

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

SECTION 12: Ecological Effects

Toxicity

Toxicity to fish semi-static test LC50- Oncorhynchus mykiss (rainbow trout)
->0.17 mg/l-96 h

(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic Immobilization EC50-Daphnia magna (Water flea) ->1,000
mg/l- 24 h

invertebrates (OECD Test Guideline 202)

Toxicity to bacteria Respiration inhibition EC50- Sludge Treatment -> 100 mg/l - 3h
(OECD Test Guideline 209)

Persistence and degradability

Biodegradability aerobic—Exposure time 28 d
Result: 0%- Not biodegradable.
(OECD Test Guideline 301 B)

Bioaccumulative potential

No data available

Mobility in soil

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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

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

Contaminated packaging

Dispose of as unused product.

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)

ADR/RID: -

IMDG: -

IATA: -

Packaging group

ADR/RID: -

IMDG: -

IATA: -

Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

Special precautions for user

no data available

SECTION 15: Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

Aquatic toxicity	Chronic aquatic toxicity
H317	May cause an allergic skin reaction.
Skin Sens.	Skin sensitization

Full text of R-phrases referred to under sections 2 and 3

Xi	Irritant
R43	May cause sensitisation by skin contact.
R53	May cause long-term adverse effects in the aquatic environment.

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.