SAFETY DATA SHEET

PowerSorb[™] 234

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

| Product Identifier | |
|--------------------------------------|--|
| Product Name: | PowerSorb™ 234 |
| Chemical Name: | 2-(2H-Benzotriazol-2-yl)-4,6-bis(1-methyl-1- |
| | phenylethyl)phenol |
| CAS-No.: | 70321-86-7 |
| Relevant identified uses of the su | bstance or mixture and uses advised against |
| Relevant applications identified | For industrial use |
| Details of the supplier of the safet | y data sheet |
| Company | Tintoll Performance Materials Co., Ltd. |
| | A-703, No. 50 Jialingjiang East St, Nanjing, China |
| | Email: SDS@ Tintoll.com |
| Emergency Telephone Number: | +86-25-8468-0091 |

SECTION 2: Hazardous identification

Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Skin irritation (Category 2) Eye irritation (Category 2) Specific target organ toxicity - single exposure (Category 3) Classification according to EU Directives 67/548/EEC or 1999/45/EC Irritating to eyes, respiratory system and skin. Label elements Labelling according Regulation (EC) No 1272/2008 [CLP]

| Pictogram | \mathbf{V} |
|----------------------------|--|
| Signal word | Warning |
| Hazard statement(s) | |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| Precautionary statement(s) | |
| P261 | Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. |
| | Remove contact lenses, if present and easy to do. Continue |
| | |



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|-------------------------|----------------------------|---|
| | rinsing. | |
| Supplemental Hazard | none | |
| Statements | | |
| According to European D | Pirective 67/548/EEC as am | nended. |
| | | |
| | X | |
| Hazard symbol(s) | | |
| R-phrase(s) | | |
| R36/37/38 | Irritating to eyes | , respiratory system and skin. |
| S-phrase(s) | | |
| S26 | In case of contact | ct with eyes, rinse immediately with plenty of wate |
| | and seek medica | al advice. |
| | Wear suitable pr | rotective clothing. |
| S36 | wear suitable pr | loteouve clothing. |

SECTION 3: Composition/information on ingredients

| Substances | | | |
|---------------------|-------------------|-----------------------------|---------------|
| Formula : | | $C_{30}H_{29}N_3O$ | |
| Molecular Weight : | | 447.57 g/mol | |
| Component | | | Concentration |
| 2-(2H-Benzotriazol- | 2-yl)-4,6-bis(1-r | nethyl-1-phenylethyl)phenol | - |
| CAS-No. | 70321-86-7 | | |
| EC-No. | 274-570-6 | | |
| | | | |

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

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



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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

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

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 (NOx) 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
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 materials 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

Precautions for safe handling



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|--|

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.

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

no data available

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

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.

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

impervious clothing, 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).

SECTION 9: Physical and Chemical Properties



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| <u> </u> | | |
| Appearance | Form: powder | |
| Appearance | Color: light yellow | |
| Odour | no data available | |
| Odour Threshold | no data available | |
| pH | no data available | |
| Melting point/freezing point | Melting point/range: | 139 - 143 °C - lit |
| Initial boiling point and | Menting pointrange. | |
| boiling range | no data available | |
| Flash point | 195 °C - closed cup | |
| 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 | no data available | |
| Partition coefficient: noctand | ol/ | |
| Water | no data available | |
| Autoignition | | |
| 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** no data available Possibility of hazardous reactions no data available Conditions to avoid



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| | rage er e | |

no data available

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Other decomposition products - no data available

SECTION 11: Toxicological Information

| Information on toxic | ological effects |
|-------------------------|---|
| Acute toxicity | |
| LD50 Oral - rat - 7,550 |) mg/kg |
| LD50 Dermal - rat - > | 2,000 mg/kg |
| Skin corrosion/irritat | tion |
| no data available | |
| Serious eye damage | /eye irritation |
| no data available | |
| Respiratory or skin s | sensitization |
| no data available | |
| Germ cell mutagenic | ity |
| no data available | |
| 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 toxicit | у |
| no data available | |
| Specific target organ | n toxicity - single exposure |
| Inhalation - May cause | e respiratory irritation. |
| Specific target organ | n toxicity - repeated exposure |
| no data available | |
| Aspiration hazard | |
| no data available | |
| Potential health effect | cts |
| Inhalation | May be harmful if inhaled. Causes respiratory tract irritation. |
| Ingestion | May be harmful if swallowed. |
| Skin | May be harmful if absorbed through skin. Causes skin irritation. |
| Eyes | Causes serious eye irritation. |
| Signs and Symptom | s of Exposure |
| To the best of our kno | wledge, the chemical, physical, and toxicological properties have not been |
| thoroughly investigate | d. |
| | |



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Additional Information

RTECS: Not available

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 no data available 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.

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: - |





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| Packaging group | | | |
| ADR/RID: - | IMDG: - | IATA: - | |
| Environmental hazards | | | |
| ADR/RID: no | IMDG Marine p | ollutant: no | IATA: no |
| Special precautions for u | iser | | |
| no data available | | | |

SECTION 15:Regulatory Information

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

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.

