

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

Product Name: PowerSorb™ 531  
 Chemical Name: 2-Hydroxy-4-(octyloxy)benzophenone  
 CAS-No.: 1843-05-6

**Relevant identified uses of the substance or mixture and uses advised against**

Relevant applications identified For industrial use

**Details of the supplier of the safety 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**

Skin irritation (Category 1), H317

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

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.
Precautionary statement(s)	
P280	Wear protective gloves
Supplemental Hazard Statements	none

Other hazards - none

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

Formula :	C <sub>21</sub> H <sub>26</sub> O <sub>3</sub>
Molecular Weight :	326.43 g/mol
CAS-No.:	1843-05-6
EC-No.:	217-421-2

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

Component	Classification	Concentration
<b>2-Hydroxy-4-(octyloxy)benzophenone</b>		
CAS-No. 1843-05-6	Skin Sens. 1; H317	<= 100%
EC-No. 217-421-2		

**Hazardous ingredients according to Directive 1999/45/EC**

Component	Classification	Concentration
<b>2-Hydroxy-4-(octyloxy)benzophenone</b>		
CAS-No. 1843-05-6	XI , R43	<= 100%
EC-No. 217-421-2		

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 (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**

No data available.

**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**

Do not let product enter drains.

**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**

Do not let product enter drains.

**SECTION 9: Physical and Chemical Properties**

Version 6.1H	Page 5 / 9	Revision Date 01 04,2021
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### 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: 47 - 49 °C - lit.
Initial boiling point and boiling range	175 °C at 1.332 hPa
Flash point	102 °C – ASTM D 93
Evaporation rate	no data available
Flammability (solid, gas)	The product is not flammable—Flammability (solids)
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	1.160 g/cm <sup>3</sup> at 25° C
Water solubility	0.0001 g/l at 20 ° C-OECD Test Guideline 105-insoluble
Partition coefficient: noctanol/ Water	log Pow: 6.416
Auto-ignition Temperature	no data available
Decomposition temperature	> 300°C -
Explosive properties	no data available
Oxidizing properties	no data available
<b>Other safety information</b>	
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

Version 6.1H	Page 6 / 9	Revision Date 01.04.2021
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No data available

**Incompatible materials**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions,-Carbon oxides

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->10,000 mg/kg

(OECD Test Guideline 423)

LD50 Dermal-rabbit-male->10,000 mg/kg

(OECD Test Guideline 402)

**Skin corrosion/irritation**

Skin-rabbit

Result: No skin irritation-4h

(OECD Test Guideline 404)

**Serious eye damage/eye irritation**

Eyes-rabbit

Result: No eye irritation

(OECD Test Guideline 405)

**Respiratory or skin sensitization**

Maximization Test-guinea pig

Result: May cause sensitization by skin contact.

(OECD Test Guideline 406)

**Germ cell mutagenicity**

Ames test

S. typhimurium

Result: negative

**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: DJ1595000

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	static test LC50- Danio rerio (zebra fish) ->100 mg/l-96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	semi-static test EC50-Daphnia magna (Water flea) ->0.0052 mg/l- 48 h (OECD Test Guideline 202)
Toxicity to algae	static test EC50- Desmodesmus subspicatus (Scenedesmus subspicatus) ->100 mg/l- 72 h (OECD Test Guideline 201)
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: 6%- Not readily biodegradable. (OECD Test Guideline 301 B)
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**Bioaccumulative potential** Cyprinus carpio (Carp) - 60 d- 0.02 mg/l

Bioconcentration factor (BCF): 89-190  
(OECD Test Guideline 305C)

### Mobility in soil

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

Offer surplus and non-recyclable solutions to a licensed disposal company. 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: -

#### 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.

#### 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.**

H317 May cause an allergic skin reaction.

Skin Sens. Skin sensitisation

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

Xi Irritant

R43 May cause sensitisation by skin contact.

**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.