



## CSFC TAIWAN ENTERPRISE CORPORATION

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### MATERIAL SAFETY DATA SHEET CSFC 531

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#### SECTION 1 IDENTIFICATION OF THE SUBSTANCE

**Product name** 2-Hydroxy-4-n-octoxybenzophenone  
**Chemical identification** Octabenzene  
**CAS Number** 001843-05-6  
**Use** Stabiliser

#### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number	Product Name	Content	Symbol(s)	R-Phrase(s)
025973-55-1	2-Hydroxy-4-n-octoxybenzophenone	100 %	XI	R43-R52/53

#### SECTION 3 HAZARDS IDENTIFICATION

May cause sensitization by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### SECTION 4 FIRST AID MEASURES

##### Skin contact

Wash off with soap and plenty of water. Do not use organic solvents.

##### Eye contact

Rinse immediately with plenty of water for at least 15 minutes. In case of eye irritation, seek medical attention.

##### Inhalation

Move to fresh air. In case of irritation of respiratory system or mucous membranes, seek medical attention. In case of indisposition, seek medical attention. In case of prolonged exposure, seek medical attention.

##### Ingestion

Immediately give plenty (> 500 ml) of water (if possible charcoal slurry). In case of spontaneous vomiting be sure that vomitus can freely drain due to danger of suffocation. Give water repeatedly. Artificial induction of vomiting should be restricted to first aid staff. Give nothing by mouth in cases of unconsciousness or convulsion. Seek medical advice.

#### SECTION 5 FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Dry powder

##### Extinguishing media which must not be used for safety reasons

High volume water jet

##### Exposure hazards



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Contaminated water from fire hoses or sprinklers, etc., must be prevented from draining into watercourses, sewers, or the ground water. Sufficient measures must be taken to retain water used for extinguishing. Contaminated water and soil must be disposed of in conformity with local regulations.

### **Special protective equipment for firefighters**

Wear full protective clothing. Wear self-contained breathing apparatus.

### **Combustion products**

Oxides of carbon; Oxides of nitrogen (NOx); Toxic gases/vapours

## **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Do not breathe vapours/dust. Remove all sources of ignition. Avoid contact with skin, eyes and clothing.

### **Environmental precautions**

Do not flush into surface water, sanitary sewer or ground water system.

### **Methods for cleaning up**

Use mechanical handling equipment. Collect the spilled product into suitable containers, which must be tightly sealed and properly labelled. Avoid dust formation

## **SECTION 7 HANDLING AND STORAGE**

### **Handling**

Harmful. Handle and open container with care. Avoid dust formation and ignition sources. Ensure good local exhaust ventilation. Do not eat, drink or smoke at the workplace.

### **Storage**

Keep away from food and drink. Store in the original container securely closed.

Danger! Explosion risk. Risk of explosion if an air-dust mixture forms. Avoid creating dusty conditions. Empty only into earthed containers. If container is larger than 2000 liter in volume, or when flammable solvents are present inert container or use a system otherwise designed to prevent or contain an explosion -- seek expert advice.

## **SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Exposure limit(s)**

#### ***Exposure limit (8 hour time weighted average)***

Value 1.0 mg/m<sup>3</sup>

*Justification to exposure limit* Effects on liver and kidney in animal studies

### **Technical measures/Precautions**

Exposure limit(s) should be monitored using suitable analytical equipments.

### **Respiratory protection**

Effective dust mask.

### **Hand protection**

Protective gloves



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### Eye protection

Suitable goggles or face protection

### Skin and body protection

Working clothes , Closed footwear

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	powder	
<b>Colour</b>	light yellow	
<b>Odour</b>	odourless	
<b>Melting/freezing temperature</b>	48 - 49 °C	
<b>Boiling point/range</b>	>400 °C	
<b>Relative density 20 °C</b>	1.16 g/cm <sup>3</sup>	
<b>Flash point</b>	229 °C	<b>DIN 51758</b>
<b>Ignition Temperature</b>	370 °C	<b>BAM</b>
<b>Oxidising properties</b>	not tested	
<b>Self-ignition temperature</b>	not tested	
<b>Water solubility 20 °C</b>	< 1mg/l	
<b>Vapour pressure 25 °C</b>	4.6 E-6 Pa	
<b>Partition coefficient; Log Pow</b>	> 6	
<i>20 - 25°C</i>		
<b>pH-value 1 % suspension in water</b>	6	
<i>20 - 25°C</i>		
<b>Explosive properties</b>	not tested	

## SECTION 10 STABILITY AND REACTIVITY

<b>Decomposition temperature</b>	> 350 °C
<b>Conditions to avoid</b>	Static discharges.
<b>Materials to avoid</b>	Strong acids, strong bases and strong oxidising agents.
<b>Hazardous decomposition products</b>	Oxides of carbon, Oxides of nitrogen (NO <sub>x</sub> ), Toxic gases/vapours

## SECTION 11 TOXICOLOGICAL INFORMATION

<b>Acute oral toxicity</b>	LD50 > 2000 mg/kg
<i>Rat</i>	
<b>Acute demal toxicity</b>	not irritant
<i>Rat</i>	
<b>Acute Inhalation Toxicity</b>	LC50 > 400 mg/m <sup>3</sup>
<i>Rat 7 d</i>	
<b>Acute eye irritation/corrosion</b>	not irritant
<i>Rabbit</i>	



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<b>Acute dermal irritation/corrosion</b> <i>Rabbit</i>	not irritant
<b>Acute skin sensitisation</b> <i>Guinea pig</i>	not sensitising

### Further information

Following prolonged exposure, lymph node swelling (inflammation) was observed in rats.

## SECTION 12 ECOLOGICAL INFORMATION

<b>Acute toxicity to fish</b> <i>Zebra fish (Brachydanio rerio) 96 h</i>	LC50 > 100 mg/l
<b>Acute toxicity to daphnia</b> <i>Daphnia magna 24 h 20 °C</i>	EC50 > 52 mg/l
<b>Acute toxicity to bacteria</b> <i>Sewage sludge 3 h</i>	IC50 > 100 mg/l
<b>Acute toxicity to algae</b> <i>Scenedesmus sp. 72 h</i>	EC50 > 100 mg/l
<b>Biodegradability</b>	Not biodegradable
<b>Ecotoxic effects</b>	

Do not discharge product uncontrolled into the environment

## SECTION 13 DISPOSAL CONSIDERATIONS

### Waste from residues / unused products

Residual chemical should be disposed by incineration or by other modes of disposal in compliance with local legislation.

### Contaminated packaging

Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation

## SECTION 14 TRANSPORT INFORMATION

<b>Flash point</b>	> 200 °C
<b>ADR/RID</b>	Class: Free
<b>IMO</b>	Class: Free
<b>ICAO</b>	Class: Free

## SECTION 15 REGULATORY INFORMATION

<b>EC-Number</b>	217-421-2
<b>Contains</b>	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol
<b>Classification</b>	Self-classification
<b>Symbol(s)</b>	Xi Irritant



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<b>R-Phrase(s)</b>	R43 May cause sensitization by skin contact . R52/53 May cause long-term adverse effects in the aquatic environment
<b>S-Phrase(s)</b>	S37 Wear suitable gloves. S61 Avoid release to the environment. Refer to special instructions/Safety datasheets .

### **SECTION 16 OTHER INFORMATION**

Essential changes                      New layout

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