

**MAXGARD® 700**

**SAFETY DATA SHEET**

Replaced Version 12-07-2015  
Revision Date 05-11-2020

**1. PRODUCT AND COMPANY INFORMATION**

Product Name : 2-Hydroxy-4-(octyloxy) benzophenone  
Product Number : MAXGARD® 700  
Brand : MAXGARD®  
REACH Status : Pre-registered 2008-09-17  
Identified Uses : UV stabilizer; Laboratory chemicals; Manufacture of substances  
Company : Lycus Ltd., LLC  
181 Cooper Drive  
El Dorado, AR 71730-6601  
USA  
  
Telephone : +1 870-881-5000  
Fax : +1 870-862-9628  
Emergency Phone Number : +1 800-424-9300 (CHEMTREC)

**2. HAZARDS IDENTIFICATION**

**Emergency Overview**

**OSHA Hazards** Target Organ Effect, Irritant, Sensitizer

**GHS Label elements, including precautionary statements**

Pictogram



Signal Word Warning

**Hazard statement(s)**

H303 May be harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H413 May cause long lasting harmful effects to aquatic life.

**Precautionary statement(s)**

P261 Avoid breathing dust/fume/gas/mist/vapor/spray.  
P273 Avoid release to the environment.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**HMIS Classification**

Health Hazard	2	Blue
Flammability	1	Red
Physical Hazards	0	Orange

**NFPA 704 Rating**

**MAXGARD® 700**

**SAFETY DATA SHEET**

Replaced Version 12-07-2015  
Revision Date 05-11-2020

Health Hazard	2	Blue
Fire	1	Red
Reactivity Hazard	0	Yellow

**Potential Health Effects**

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

**EU/International Classification of the substance or mixture**

**According to Regulation (EC) No1272/2008**

Acute toxicity, Oral (Category 5)  
Skin irritation (Category 2)  
Acute aquatic toxicity (Category 1)  
Chronic aquatic toxicity (Category 4)

**According to European Directive 67/548/EEC as amended.**

Irritating to eyes, respiratory system and skin.  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**EU/International Label elements**

**Hazard symbol(s)**



Acute hazards to the aquatic environment

Xi Irritant

**R-phrases**

R36/37/38 Irritating to eyes, respiratory system and skin.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-phrases**

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37/39 Wear suitable gloves and eye/face protection.

**Other Hazards** None

---

**3. COMPOSITION/INFORMATION OF INGREDIENTS**

Formula	:	C <sub>21</sub> H <sub>26</sub> O <sub>3</sub>
Molecular Weight	:	326.44 g/mol
Synonyms	:	Benzophenone-12, Methanone, (2-hydroxy-4-(octyloxy)phenyl)phenyl-, Octabenzone

**MAXGARD® 700**

**SAFETY DATA SHEET**

Replaced Version 12-07-2015  
Revision Date 05-11-2020

CAS-No.	EC-No.	Index-No.	EU/International Classification	Concentration
2-Hydroxy-4-(octyloxy)benzophenone				
1843-05-6	217-421-2	-	Skin Irrit. 2; Skin Sens. 1; Aquatic Chronic 4; H303, H315, H317, H413, Xi, R36/37/38, R50/53	>98.5%

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

---

#### 4. FIRST AID MEASURES

##### General advice

Remove contaminated clothing. 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 with eyelids held open. Consult a physician.

##### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water and then drink plenty of water. Do NOT induce vomiting. Consult a physician.

##### Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions). No known specific antidote.

---

#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Use water spray, alcohol-resistant foam or dry chemical. Carbon dioxide is not recommended because it is an asphyxiant.

##### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. – Carbon oxides

##### Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and turn-out gear.

---

#### 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### **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.

---

## **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. Normal measures for preventative fire protection.

### **Conditions for safe storage**

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

---

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

### **Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

### **Personal protective equipment**

#### **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). Ensure respirators conform to 29 CFR 1910.134.

#### **Hand 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.

**MAXGARD® 700**

**SAFETY DATA SHEET**

Replaced Version 12-07-2015  
Revision Date 05-11-2020

**Eye protection**

Eye and face protection conforming to 29 CFR 1910.133 or EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Skin and body protection**

Impervious clothing, the type of protective clothing must be selected according to the concentration and amount of dangerous substance at the specific workplace.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

Form	powder
Color	light yellow

**Safety data**

Odor	product specific
pH	no data available
Melting point	47 – 49 °C
Boiling point	>400 °C
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	insoluble
Density	1.16 g/cm <sup>3</sup> (25 °C)

---

**10. STABILITY AND REACTIVITY**

**Chemical stability**

Stable under recommended storage conditions

**Conditions to avoid**

No conditions known that should be avoided

**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. – Carbon oxides

**Corrosion to metals**

No corrosive effect on metal

**Thermal decomposition**

>300 °C

**MAXGARD® 700**

**SAFETY DATA SHEET**

Replaced Version 12-07-2015  
Revision Date 05-11-2020

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

Oral	LD50/rat:	>10,000 mg/kg
Dermal	LD50/rabbit:	>10,000 mg/kg
Inhalation		no data available

**Skin corrosion/irritation**

Skin irritation	Guinea pig: sensitizing (OECD Guideline 406)
-----------------	--

**Serious eye damage/eye irritation**

Eye irritation	no data available
----------------	-------------------

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

No data available

**Specific target organ toxicity – single exposure**

Inhalation	May cause respiratory irritation.
------------	-----------------------------------

**Specific target organ toxicity – repeated exposure**

No data available

**Aspiration hazard**

No data available

**Potential health effects**

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 eye irritation.

**Signs and Symptoms of Exposure**

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

**Additional Information**

RTECS

DJ1595000

---

## 12. ECOLOGICAL INFORMATION

### Eco toxicity

Acute and Chronic toxicity to fish

Zebra fish/LC50 (96 h):

>100 mg/l

The details of the toxic effect relate to the nominal concentration.

Acute toxicity to microorganisms

bacterium/EC50 (3 h):

>100 mg/l

The details of the toxic effect relate to the nominal concentration.

Acute toxicity to aquatic invertebrates

Daphnia magna/EC50 (24 h):

52 mg/l

The details of the toxic effect relate to the nominal concentration.

Acute toxicity to aquatic plants

Algae/EC50 (72 h):

>100 mg/l

The details of the toxic effect relate to the nominal concentration.

Other Eco toxicological advice

Do not release untreated into natural waters.

### Persistence and degradability

Biodegradation

Test method: Directive 84/449/EEC, C.5

Degree of elimination: 5 - 6% (28 d)

Evaluation: Not readily biodegradable (by OECD criteria)

### Bio accumulative potential

No data available

### Mobility in soil

No data available

### PBT and vPvB assessment

No data available

### Other adverse effects

Very toxic to aquatic life.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

---

## 13. DISPOSAL CONSIDERATIONS

**MAXGARD® 700**

**SAFETY DATA SHEET**

Replaced Version 12-07-2015  
Revision Date 05-11-2020

**Product**

Offer surplus and non-recyclable materials 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.

**RCRA requirements**

None

---

**14. TRANSPORT INFORMATION**

**DOT (US)**

Not dangerous goods

**IMDG**

UN Number: 3077 Class: 9 Packaging group: III EMS-No: F-A, S-F  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-Hydroxy-4-(octyloxy)benzophenone)  
Marine pollutant: Yes

**TDG (Canada)**

Not dangerous goods

**ICAO/IATA**

UN Number: 3077 Class: 9 Packaging group: III  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-Hydroxy-4-(octyloxy)benzophenone)  
Environmental hazard: Yes

**ADR/RID**

ADR/RID: 3077 Class: 9 Packaging group: III  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-Hydroxy-4-(octyloxy)benzophenone)  
Environmental hazard: Yes

**Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single package and combination packages containing inner packaging with Dangerous Goods > 5L for liquids or > 5kg for solids.

---

**15. REGULATORY INFORMATION**

**OSHA Hazards**

Target Organ Effect, Irritant, Sensitizer

**TSCA Inventory**

CAS No. 1843-05-6 is listed/approved



**MAXGARD® 700**

**SAFETY DATA SHEET**

Replaced Version 12-07-2015  
Revision Date 05-11-2020

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312**

Acute Health Hazard

**Massachusetts Right to Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right to Know Components**

2-Hydroxy-4-(octyloxy)benzophenone

**CAS No.**

1843-05-6

**Revision Date**

**New Jersey Right to Know Components**

2-Hydroxy-4-(octyloxy)benzophenone

**CAS No.**

1843-05-6

**Revision Date**

**California Prop. 65 Components**

This product does not contain any chemical known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**DSL Status**

CAS No. 1843-05-6 is on the Canadian DSL list

**WHMIS Classification**

D2B

Toxic Material Causing Other Toxic Effects

**WGK (Water Danger/Protection)**

CAS No. 1843-05-6

WGK2

**Regulation (EC) No. 1907/2006**

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

---

**16. OTHER INFORMATION**

In accordance with good practices of personal cleanliness and hygiene handle with due care and avoid unnecessary contact with this product.

This information is being supplied to you under OSHA "Right to Know / Right to Understand" Regulation 29 CFR 1910.1200 and is offered in good faith as typical values and not as a product specification. The information contained herein is based on the data available to us and is believed to be true and accurate.

No warranty, expressed or implied, regarding the accuracy of this data, the hazards connected with the use of the material, or the results obtained from the use thereof, is made. Lycus Ltd. assumes no responsibility for damage or injury from the use of the product described herein.

Lycus Ltd. certifies this product:

- Does not contain any ingredient of animal origin.

- Does not contain the beverage alcohol and beverage alcohol has not been used in the manufacturing process.

**Text of H-code(s) and R-phrase(s) mentioned in Section 3**

H303	May be harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction.
H413	May cause long lasting harmful effects to aquatic life.
Skin Irrit.	Skin irritation
Skin Sens.	May cause an allergic skin reaction
Aquatic Chronic	Acute hazards to the aquatic environment
Xi	Irritant
R36/37/38	Irritating to eyes, respiratory system and skin
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Further information**

Copyright 2015 Lycus Ltd. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lycus Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

Data prepared:	November 8, 2007
Date of revision	September 5, 2012
Date of revision	December 1, 2013
Date of revision	December 7, 2015
Date of revision	May 11, 2020