# SAFETY DATA SHEETS

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

> Version: 1.0 Creation Date: Aug 11, 2017 Revision Date: Aug 11, 2017

1.	Identification		
1.1	1 GHS Product identifier		
	Product name	Octabenzone	
1.2	2 Other means of identification		
	Product number Other names	- benzophenone-12,octabenzone	
1.3 Recommended use of the chemical and restrictions on use		of the chemical and restrictions on use	
	Identified uses	For industry use only. Adsorbents and absorbents,Paint additives and coating additives not described by other categories,Processing aids, not otherwise listed no data available	
	Uses advised against		
2.	Hazard identification		
2.1	.1 Classification of the substance or mixture Skin sensitization, Category 1B		
2.2	2 GHS label elements, including precautionary statements		
	Pictogram(s)		
	Signal word	▼	

Warning

Hazard statement(s)	H317 May cause an allergic skin reaction
Precautionary statement(s)	
Prevention	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
	P272 Contaminated work clothing should not be allowed out of the workplace.
	P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response	P302+P352 IF ON SKIN: Wash with plenty of water/
	P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
	P321 Specific treatment (see on this label).
	P362+P364 Take off contaminated clothing and wash it before reuse.
Storage	none
Disposal	P501 Dispose of contents/container to

2.3 Other hazards which do not result in classification

none

# 3. Composition/information on ingredients

# 3.1 Substances

Chemical	Common names and	CAS	EC	Concentration
name	synonyms	number	number	Concentration
Octabenzone	Octabenzone	1843-05-6	none	100%

- 4. First-aid measures
- 4.1 Description of necessary 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.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# 4.2 Most important symptoms/effects, acute and delayed

no data available

4.3 Indication of immediate medical attention and special treatment needed, if necessary

/SRP:/ Immediate first aid: Ensure that adequate decontamination has been carried out. If patient is not breathing, start artificial respiration, preferably with a demand-valve resuscitator, bag-valve-mask device, or pocket mask, as trained. Perform CPR as necessary. Immediately flush contaminated eyes with gently flowing water. Do not induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Keep patient quiet and maintain normal body temperature. Obtain medical attention. /Aromatic hydrocarbons and related compounds/

- 5. Fire-fighting measures
- 5.1 Extinguishing media

Suitable extinguishing media

Wear self contained breathing apparatus for fire fighting if necessary.

5.2 Specific hazards arising from the chemical

no data available

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

- 6. Accidental release measures
- 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 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.

6.3 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
- 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

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

- 8. Exposure controls/personal protection
- 8.1 Control parameters

Occupational Exposure limit values

no data available

**Biological limit values** 

no data available

## 8.2 Appropriate engineering controls

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

# 8.3 Individual protection measures, such as personal protective equipment (PPE)

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

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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.

**Respiratory protection** 

Wear dust mask when handling large quantities.

Thermal hazards

no data available

# 9. Physical and chemical properties

Physical stateLight Yellow CrystalColourCrystalsOdourno data availableMelting point/ freezing88°C(lit.)point

Boiling point or initial boiling point and boiling range	84°C/15mmHg
Flammability	no data available
Lower and upper explosion limit / flammability limit	no data available
Flash point	102°C
Auto-ignition temperature	no data available
Decomposition	no data available
temperature	
рН	no data available
Kinematic viscosity	no data available
Solubility	In water, <0.001 mg/L at 20°C, pH 6 /OECD Guideline 105 (Water Solubility)/
Partition coefficient n- octanol/water (log value)	log Kow = 6.96 (est)
Vapour pressure	5.25E-09mmHg at 25°C
Density and/or relative density	1.160g/cm3
Relative vapour density	y no data available
Particle characteristics	

# 10. Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

no data available

#### 10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidizing agents

#### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

# 11. Toxicological information

Acute toxicity

- Oral: LD50 Mouse oral 13 g/kg
- · Inhalation: no data available
- · Dermal: no data available

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

#### 12. Ecological information

- 12.1 Toxicity
  - · Toxicity to fish: no data available
  - Toxicity to daphnia and other aquatic invertebrates: EC50; Daphnia magna (water flea) 48 hr, semi-static conditions, 0.003 mg/L.
  - Toxicity to algae: EC50; Pseudokirchneriella subcapitata (green algae) 72 hr, static conditions, 0.002 mg/L, biomass.
  - · Toxicity to microorganisms: no data available

#### 12.2 Persistence and degradability

AEROBIC: 2-Hydroxy-4-(octyloxy)benzophenone, present at 100 mg/L, reached 0% of its theoretical BOD in 2 weeks using an activated sludge inoculum at 30 mg/L in the Japanese MITI test(1). Using OECD Guideline 301B (Ready Biodegradability: CO2 Evolution Test) and a non-adapted activated sludge inoculum, 2-hydroxy-4-(octyloxy)benzophenone (at 10.7 and 20.2 mg/L) achieved 5-6% CO2 evolution after 28 days of incubation which classified the compound as not readily biodegradable(2).

#### 12.3 Bioaccumulative potential

BCF range of 70-190 was determined in fish for 2-hydroxy-4-(octyloxy)benzophenone(SRC), using carp (Cyprinus carpio) which were exposed over a 60-day period(1). According to a classification scheme(2), this BCF range suggests the potential for bioconcentration in aquatic organisms is moderate to high(SRC).

#### 12.4 Mobility in soil

Using a structure estimation method based on molecular connectivity indices(1), the Koc of 2-hydroxy-4-(octyloxy)benzophenone can be estimated to be 6.4X10+4(SRC). According to a classification scheme(2), this estimated Koc value suggests that 2-hydroxy-4-(octyloxy)benzophenone is expected to be immobile in soil.

#### 12.5 Other adverse effects

no data available

#### 13. Disposal considerations

#### 13.1 Disposal methods

#### Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

#### 14. Transport information

#### 14.1 UN Number

ADR/RID: Not dangerous	IMDG: Not dangerous	IATA: Not dangerous
goods.	goods.	goods.

#### 14.2 UN Proper Shipping Name

ADR/RID: unknown IMDG: unknown IATA: unknown

#### 14.3 Transport hazard class(es)

ADR/RID: Not dangerous	IMDG: Not dangerous	IATA: Not dangerous
goods.	goods.	goods.

#### 14.4 Packing group, if applicable

ADR/RID: Not dangerous	IMDG: Not dangerous	IATA: Not dangerous
goods.	goods.	goods.

#### 14.5 Environmental hazards

ADR/RID: no	IMDG: no	IATA: no
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14.6 Special precautions for user

no data available

# 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

## 15. Regulatory information

# 15.1 Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
Octabenzone	Octabenzone	1843-05-6	none
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
EC Inventory			Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed.
Vietnam National Chemical Inventory			Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed.

#### 16. Other information

Information on revision

Creation Date	Aug 11, 2017
Revision Date	Aug 11, 2017

Abbreviations and acronyms

- · CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

- · IMDG: International Maritime Dangerous Goods
- · IATA: International Air Transportation Association
- TWA: Time Weighted Average
- · STEL: Short term exposure limit
- · LC50: Lethal Concentration 50%
- · LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

#### References

- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website:
  - http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- · ECHA European Chemicals Agency, website: https://echa.europa.eu/

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