

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 16 Aug 2022

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:

Avobenzone

1.1. Catalog No.:

685592

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical uses: R&D

uses:

1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

04451 Cunnersdorf Deutschland

Tel. +49 34291 3372-36 Fax. +49 34291 3372-39 contact@hpc-standards.com

1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36 This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture 2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410 Classification according to EU Directives 67/548/EEC or 1999/45/EC
N Dangerous for the
environment
R50/53

2.2. Label elements

2.2.1. Pictogram



2.2.2.



Pictogram Signal word Warning Hazard statement(s)
H410 Very toxic to aquatic life with long lasting effects. Precautionary statement(s)
P273 Avoid release to the environment.
P501 Dispose of contents/ container to an approved waste disposal plant. Supplemental Hazard Statements 2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

3.1 Substances
Synonyms: Avobenzone
Butyl methoxydibenzoylmethane
Formula: C20H22O3
Molecular Weight: 310,39 g/mol
CAS-No.: 70356-09-1
EC-No.: 274-581-6

EC-No.: 2/4-581-6
Hazardous ingredients according to Regulation (EC) No 1272/2008
Component Classification Concentration
1-(4-Methoxyphenyl)-3-(4-tert-butylphenyl)-1,3-propanedione
CAS-No.
EC-No.
70356-09-1
274-581-6
Aguatic Acute 1: Aquatic Aquatic Acute 1; Aquatic Chronic 1; H410

Hazardous ingredients according to Directive 1999/45/EC Component Classification Concentration 1-(4-Methoxyphenyl)-3-(4-tert-butylphenyl)-1,3-propanedione CAS-No.

EC-No. 70356-09-1 274-581-6

N, R50/53 <= 100 %

3.1.1. Formula

C20H22O3

3.1.2. Molecular Weight (g/mol)

310.39



3.1.3. CAS-No.

70356-09-1

4. FIRST AID MEASURES

4.1 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. 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in

4.3 Indication of any immediate medical attention and special treatment needed no data available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture

Carbon oxides
5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. 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.

6.4 Reference to other sections

For disposal see section 13



7. HANDLING AND STORAGE

7.1 Precautions for safe handling Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire rovide appropriate exhaust vertilation at places where dust is formed. Normal mean protection.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties a) Appearance Form: Powder with lumps

Colour: off-white

b) Odour no data available c) Odour Threshold no data available

d) pH no data available e) Melting point/freezing

point
Melting point/range: 81 - 84 °C
f) Initial boiling point and

boiling range

boiling range no data available g) Flash point no data available h) Evapouration rate no data available i) Flammability (solid, gas) no data available j) Upper/lower no data available flammability or explosive limits k) Vapour pressure no data available l) Vapour density no data available m) Relative density 1,037 - 1,041 g/cm3 n) Water solubility insoluble o) Partition coefficient: noctanol/water

water log Pow: 4,3 p) Auto-ignition

temperature no data available

q) Decomposition

temperature no data available

r) Viscosity no data available

s) Explosive properties no data available

t) Oxidizing properties no data available 9.2 Other safety information

no data available



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 no data available 10.6 Hazardous decomposition products Other decomposition products - no data available In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity no data available Skin corrosion/irritation no data available Serious eye damage/eye irritation no data available Respiratory or skin sensitisation 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 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: Not available
To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

Very toxic to aquatic life. no data available



13. DISPOSAL CONSIDERATIONS

13.1 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

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: 3077 IMDG: 3077 IATA: 3077

14.2 UN proper shipping name ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1-(4-Methoxyphenyl)-3-

(4-tert-butylphenyl)-1,3-propanedione)
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1-(4-Methoxyphenyl)-3-

(4-tert-butylphenyl)-1,3-propanedione)
IATA: Environmentally hazardous substance, solid, n.o.s. (1-(4-Methoxyphenyl)-3-(4-tertbutylphenyl)-

1,3-propanedione)
14.3 Transport hazard class(es)
ADR/RID: 9 IMDG: 9 IATA: 9 14.4 Packaging group
ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: yes

14.6 Special precautions for user

Further information

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

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture no data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16. OTHER INFORMATION

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. For lab use only!