

Aaron Chemistry GmbH

ORGANIC CHEMISTRY

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 1 Revision date: 10/02/2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: 4,4'-Bis(diethylamino)benzophenone

Product code: 52515

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

Identified uses: Reagents

1.3 Details of the supplier of the safety data sheet

Supplier: : Aaron Chemistry GmbH, Am Fischweiher 41-43 Company

: D-82481 Mittenwald, Germany

: +49-8823-917521 Telephone: Fax: : +49-8823-917523 email: : info@aaron-chemistry.de

Emergency telephone number :+49-8823-917521

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Acute aquatic hazard Category 1 Long-term aquatic hazard Category 1

2.2 Label elements

Pictograms or hazard symbols



Signal word Warning

Hazard statements H315-Causes skin irritation. H319-Causes serious eye irritation. H400-Very toxic to aquatic life.

H410-Very toxic to aquatic life with long lasting effects.

P273-Avoid release to the environment. **Precautionary statements**

P264-Wash hands and face thoroughly after handling.

P280-Wear protective gloves, eye protection.

P302+P352+P332+P313+P362+P364-IF ON SKIN: Wash with plenty of water. If skin irritation occurs:

Get medical advice or attention. Take off contaminated clothing and wash it before reuse.

P305+P351+P338+P337+P313-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice

or attention. P391-Collect spillage.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable Not applicable vPvB:

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SECTION 3: Composition/information on ingredients

3.1 Substances

Components: 4,4'-Bis(diethylamino)benzophenone

 Percent:
 >98.0%(T)

 CAS RN:
 90-93-7

 EC-No:
 202-025-4

Synonyms: N,N,N',N'-Tetraethyl-4,4'-diaminobenzophenone

Chemical Formula: C21H28N2O

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

advice/attention if you feel unwell.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If

skin irritation or rash occurs: Get medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Get medical advice/attention if you feel unwell. Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

5.2 Special hazards arising from the

substance or mixture

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure to wear personal protective equipment

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc

6.2 Environmental precautions

Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned $\frac{1}{2}$

6.3 Methods and materials for containment and cleaning up

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or

aerosol will be generated. Avoid contact with skin, eyes and clothing.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials

such as oxidizing agents.

Light-sensitive

7.3 Specific end use(s) No further relevant information available

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters No data available

8.2 Exposure controls Install a closed system or local exhaust as possible so that workers should not be exposed directly.

Also install safety shower and eye bath.

Respiratory protection: Dust respirator. Follow local and national regulations.

Hand protection: Protective gloves.

Eye protection: Safety glasses. A face-shield, if the situation requires. **Skin and body protection:** Protective clothing. Protective boots, if the situation requires.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state (20°C): Solid

Form: Crystal - Powder

Colour: Very pale yellow - Pale yellow green

Odorless Odorless

pH: No data available

Melting point/freezing point: 94°C

Boiling point/range: No data available Flash point: No data available Evaporation rate(Butyl Acetate=1): No data available Flammability(solid, gas): No data available

Flammability or explosive limits:

Lower: No data available
Upper: No data available
Vapour pressure: No data available
Vapour density: No data available
Relative density: No data available

Solubility(ies):

[Water] No data available

[Other solvents]

Soluble: Methanol

Partition coefficient:
n-octanol/water:
Autoignition temperature:
Decomposition temperature:
Dynamic Viscosity:
No data available

9.2 Other safety information No data available

SECTION 10: Stability and reactivity

10.1 Reactivity No data available

10.2 Chemical stability Stable under proper conditions.

10.3 Possibility of hazardous reactions No special reactivity has been reported.

10.4 Conditions to avoid No data available10.5 Incompatible materials Oxidizing agents

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute Toxicity:

Skin corrosion/irritation:

Serious eye damage/irritation:

Respiratory or skin sensitization:

Germ cell mutagenicity:

No data available
No data available
dnd-hmn-ast 25 mg/L/2H

Carcinogenicity:

IARC = No data available
NTP = 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
RTECS Number: OS9545500

SECTION 12: Ecological information

12.1 Toxicity

Fish: No data available
Crustacea: No data available
Algae: No data available

12.2 Persistence and degradability No data available

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil

Log Pow: No data available
Soil adsorption (Koc): No data available
Henry's Law (PaM ³/mol): No data available

12.5 Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

12.6 Other adverse effects No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

SECTION 14: Transport information

14.1 UN number 3077

14.2 UN proper shipping name

ADR/RID Environmentally hazardous substance, solid, n.o.s IMDG/IMO Environmentally hazardous substance, solid, n.o.s ICAO/IATA Environmentally hazardous substance, solid, n.o.s

14.3 Transport hazard class(es)

ADR/RID 9: Miscellaneous dangerous goods IMDG/IMO 9: Miscellaneous dangerous goods ICAO/IATA 9: Miscellaneous dangerous goods

14.4 Packaging group

ADR/RID III
IMDG/IMO III
ICAO/IATA III

14.5 Environmental hazards

Marine pollutant

14.6 Special precautions for user No data available

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Water Hazard Classes (WGK) : Class 2 - Hazard to waters

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006

Not listed

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Prepared by: Aaron Chemistry GmbH

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