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3,3,4,4-Benzophenone Tetra Carboxylic Dianhydride CAS No 2421-28-5

MATERIAL SAFETY DATA SHEET SDS/MSDS

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

| 1.1 | Product identifiers Product name | : | 3,3,4,4-Benzophenone Tetra Carboxylic Dianhydride |
|-------------------------------------|--|-------|---|
| | CAS-No. | : | 2421-28-5 |
| 1.2 Relevant identified uses of the | | of th | e substance or mixture and uses advised against |
| | Identified uses | : | Laboratory chemicals, Industrial & for professional use only. |
| 1.3 | Details of the supplier of the safety data sheet Company : Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002 INDIA | | |
| | Telephone Email | : | +91 11 49404040 care@cdhfinechemical.com |
| 1.4 | Emergency telephone number | | |
| | Emergency Phone # | : | +91 11 49404040 (9:00am - 6:00 pm) [Office hours] |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008
Pictogram



Signal word

Warning

Hazard statement(s) H319 H335

Causes serious eye irritation. May cause respiratory irritation.

Precautionary statement(s) P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard none Statements

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

| 3.1 | Substances Synonyms | | 4,4 -Carbonyldiphthalic anhydride | | |
|-----|---|---|-----------------------------------|---------------|--|
| | Cynonymo | • | | | |
| | Formula | : | С17Н6О7 | | |
| | Molecular weight | : | 322.23 g/mol | | |
| | CAS-No. | : | 2421-28-5 | | |
| | EC-No. | : | 219-348-1 | | |
| | Index-No. | : | 607-100-00-9 | | |
| | Hazardous ingredients according to Regulation (EC) No 1272/2008 | | | | |
| | Component | | Classification | Concentration | |

| 4,4'-Carbonyldi(phtha | lic anhydride) | |
|-----------------------|----------------|---|
| CAS-No. | 2421-28-5 | Eye Irrit. 2; STOT SE 3; H319, <= 100 % |
| EC-No. | 219-348-1 | H335 |
| Index-No. | 607-100-00-9 | Concentration limits: |
| | | >= 1 %: Eye Irrit. 2, H319; >= 1 |
| | | %: STOT SE 3, H335; |

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

SECTION 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.

lf 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 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 section 11

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

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 firefighting if necessary.
- 5.4 Further information No data available

SECTION 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 Do not let product enter drains.
- 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.

SECTION 7: Handling and storage

7.1 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. 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.

Moisture sensitive. Handle and store under inert gas. Storage class (TRGS 510): Combustible Solids

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

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

Personal protective equipment

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

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.

Body Protection

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

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEKP2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| a) | Appearance | Form: powder flakes Colour: white to pale cream to brown |
|---|--|---|
| b) | Odour | No data available |
| c) | Odour Threshold | No data available |
| d) | рН | No data available |
| e) | Melting point/freezing point | Melting point/range: 220- 224 °C - lit. |
| f) | Initial boiling point and boiling range | No data available |
| g) | Flash point | No data available |
| h) | Evaporation rate | No data available |
| i) | Flammability (solid, gas) | No data available |
| j) | Upper/lower flammability or explosive limits | Upper explosion limit: 16 %(V) Lower explosion limit: 4.2 %(V) |
| k) | Vapour pressure | No data available |
| I) | Vapour density | No data available |
| m) | Relative density | No data available |
| n) | Water solubility | No data available |
| o) | Partition coefficient: n- octanol/water | No data available |
| p) | Auto-ignition | No data available |
| | temperature | |
| q) | Decomposition temperature | No data available |
| r) | Viscosity | No data available |
| s) | Explosive properties | No data available |
| t) | Oxidizing properties | No data available |
| Other safety information No data available | | |

SECTION 10: Stability and reactivity

10.1 Reactivity No data available

9.2

- **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 acids, Strong oxidizing agents, Strong bases

10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

No data available4,4'-Carbonyldi(phthalic anhydride)

Skin corrosion/irritation No data available(4,4'-Carbonyldi(phthalic anhydride))

Serious eye damage/eye irritation

No data available(4,4'-Carbonyldi(phthalic anhydride))

Respiratory or skin sensitisation

No data available(4,4'-Carbonyldi(phthalic anhydride))

Germ cell mutagenicity

No data available(4,4'-Carbonyldi(phthalic anhydride))

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(4,4'-Carbonyldi(phthalic anhydride))

Specific target organ toxicity - single exposure

May cause respiratory irritation.(4,4'-Carbonyldi(phthalic anhydride))

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available(4,4'-Carbonyldi(phthalic anhydride))

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(4,4'-Carbonyldi(phthalic anhydride))

SECTION 12: Ecological information

- 12.1 Toxicity No data available
- 12.2 Persistence and degradability No data available
- 12.3 Bioaccumulative potential No data available
- **12.4 Mobility in soil** No data available(4,4'-Carbonyldi(phthalic anhydride))

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

| 14.1 | UN number ADR/RID: - | IMDG: - | IATA: - |
|------|--|---------------------------|----------|
| 14.2 | UN proper shipping nameADR/RID:Not dangerous goodsIMDG:Not dangerous goodsIATA:Not dangerous goods | | |
| 14.3 | Transport hazard class(es) ADR/RID: - | IMDG: - | IATA: - |
| 14.4 | Packaging group ADR/RID: - | IMDG: - | IATA: - |
| 14.5 | Environmental hazards ADR/RID: no | IMDG Marine pollutant: no | IATA: no |
| 14.6 | Special precautions for user | | |

No data available

SECTION 15: Regulatory information

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

15.2 Chemical safety assessment For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

| H319 | Causes serious eye irritation. |
|------|-----------------------------------|
| H335 | May cause respiratory irritation. |

Further 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. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.