

# **SAFETY DATA SHEET**

1. IDENTIFICATION

**Product name:** 4,4'-(4,4'-Isopropylidenediphenyl-1,1'-diyldioxy)dianiline (BAPP)

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2. HAZARDS IDENTIFICATION

**GHS** classification

PHYSICAL HAZARDS Not classified

**HEALTH HAZARDS** 

Acute toxicity (Oral) Category 4
ENVIRONMENTAL HAZARDS Not classified

GHS label elements, including precautionary statements

Pictograms or hazard symbols



Signal word Warning

Hazard statements Harmful if swallowed

**Precautionary statements:** 

[Prevention] Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

[Response] IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse mouth.

[Disposal] Dispose of contents/container through a waste management company authorized by

the local government.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

**Components:** 4,4'-(4,4'-Isopropylidenediphenyl-1,1'-diyldioxy)dianiline(BAPP)

**Percent:** >99.0%(HPLC) **CAS Number:** 13080-86-9

**Synonyms:** 4,4'-Isopropylidenebis[(4-aminophenoxy)benzene]

Chemical Formula: C<sub>27</sub>H<sub>26</sub>N<sub>2</sub>O<sub>2</sub>

4. 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. Rinse skin with

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

#### 4. FIRST AID MEASURES

Eve contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if Ingestion:

present and easy to do. Continue rinsing. If eye irritation persists: Get

Protection of first-aiders: medical advice/attention.

Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

5. FIRE-FIGHTING MEASURES

Suitable

A rescuer should wear personal protective equipment, such as rubber gloves

and air-tight goggles.

extinguishing media: Specific hazards arising from

the chemical: Precautions for

equipment for firefighters:

firefighters:

Special protective

Dry chemical, foam, water spray, carbon dioxide.

Take care as it may decompose upon combustion or in high

temperatures to generate poisonous fume.

Fire-extinguishing work is done from the windward and the suitable fireextinguishing 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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, Use personal protective equipment. Keep people away from and upwind of spill/leak. protective equipment and

emergency procedures:

**Environmental precautions:** Prevent product from entering drains.

Methods and materials for containment and cleaning

up:

Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

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.

7. HANDLING AND STORAGE Precautions for safe handling

> **Technical measures:** 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.

Advice on safe handling: Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any

incompatibilities Storage

conditions:

Keep container tightly Packaging material: closed. Store in a cool and dark place. Store

8. EXPOSURE CONTROLS / **PROTECTION** 

**PERSONAL** 

Engineering 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.

Personal protective equipment

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid Form: Powder Colour: Off-white

Odour: Nearly odorless pH: No data available

Melting point/freezing point:129°C

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling point/range:**No data available
Flash point:
No data available

Flammability or explosive

limits:

Lower:No data availableUpper:No data availableRelative density:No data available

Solubility(ies):

[Water] Very slightly soluble

[Other solvents]

Soluble: Acetone, Dimethyl sulfoxide(DMSO)

#### 10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.

Possibility of hazardous No special reactivity has been reported.

reactions:

Incompatible materials: Oxidizing agents

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

products:

# 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** orl-rat LD50:308 mg/kg

skn-rbt LD:>8 g/kg

**Skin corrosion/irritation:** No data available **Serious eye** eye-rbt 100 mg MLD

damage/irritation:

Germ cell mutagenicity: No data available

Carcinogenicity:

IARC = No data available
NTP = No data available
Reproductive toxicity: No data available
RTECS Number: CY1062500

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** 

Fish: No data available
Crustacea: No data available
Algae: No data available
Persistence / degradability: No data available
Bioaccumulative No data available

potential(BCF): Mobility in soil

Log Pow:
Soil adsorption (Koc):
No data available
No data available
No data available

constant(PaM<sup>3</sup>/mol):

#### 13. DISPOSAL CONSIDERATIONS

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.

#### 14. TRANSPORT INFORMATION

Hazards Class: Does not correspond to the classification standard of the United Nations

UN-No: Not listed

## 15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

## **16. OTHER INFORMATION**

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.