

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)
Classifications according to Regulation (EC) No 1272/2008.
Printdate 21 Aug 2025

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

1.1. Product name:

4-Isopropylaminodiphenylamine

1.1. Catalog No.:

693623

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical
uses: R&D

1.3. Uses advised against:

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Am Wieseneck 7

04451 Cunnersdorf
Deutschland

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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
Serious eye damage/eye irritation Category 2
Skin sensitization Category 1
Specific target organ toxicity - Single exposure [Category 3] Narcotic effects
Specific target organ toxicity - Repeated exposure [Category 2] Blood system
Acute aquatic hazard Category 1
Long-term aquatic hazard Category 1

2.2. Label elements

2.2.1. Pictogram



2.2.2.

2.2 Label elements
Pictograms or hazard Symbols Signal word Warning

Hazard statements H319-Causes serious eye irritation.
H317-May cause an allergic skin reaction.
H373-May cause damage to organs through prolonged or repeated exposure : Blood system
H336-May cause drowsiness or dizziness.
H400-Very toxic to aquatic life.
H410-Very toxic to aquatic life with long lasting effects.
Precautionary statements P260-Do not breathe dust/fume/gas/mist/vapours/spray.
P280-Wear protective gloves, eye protection.
P302+P352+P333+P313+P362+P364-IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Take off contaminated clothing. And wash it before reuse.
P304+P340+P312-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
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.
P314-Get medical advice or attention if you feel unwell.
2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients according to Regulation (EC) No 1272/2008
Classification: Acute Tox. 4; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H317, H400, H410
M-Factor - Aquatic Acute: 10
Concentration: <= 100 %

3.1.1. Formula

C₁₅H₁₈N₂

3.1.2. Molecular Weight (g/mol)

226.32

3.1.3. CAS-No.

101-72-4

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. Call a POISON CENTER or doctor/physician 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

5. FIRE-FIGHTING 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

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

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.

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 closed system if possible.

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, dark and well-ventilated place. Store locked up. Store away from incompatible materials such as oxidizing agents.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters No data available

8.2 Exposure controls Install a closed system or local exhaust. Also install safety shower and eye bath.

Respiratory protection: Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators

approved under appropriate government standards and follow local and national regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state (20°C): Solid

Form: Pellet

Colour: Deep yellow red - Black

Odour: No data available pH: No data available Melting point/freezing point: 51°C

Boiling point/range: 165°C /0.1kPa 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:

5.4

Autoignition temperature: No data available Decomposition temperature: No data available Dynamic Viscosity: No data available Kinematic viscosity: 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 proper conditions.

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

10.4 Conditions to avoid No data available

10.5 Incompatible materials Oxidizing agents

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

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity: skn-rbt LD50:>7940 mg/kg

orl-rat LD50:3580 mg/kg

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:

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: ST0900000

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish flow-through test LC50 - *Oryzias latipes* - 0,028 mg/l - 96 h
(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

Immobilization EC50 - *Daphnia magna* (Water flea) - 0,23 mg/l - 48 h

(OECD Test Guideline 202)

12.2 Persistence and degradability

Biodegradability aerobic Biochemical oxygen demand - Exposure time 28 d

Remarks: According to the results of tests of biodegradability this product is not readily biodegradable.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

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

Very toxic to aquatic life with long lasting effects.

No data available

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.

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 Y
14.6 Special precautions for user No data available

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

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!