

MATERIAL SAFETY DATA SHEET

Product Name: Diphenylamine

CAS No.: 122-39-4

Version: 0

1. Identification

Product Code : 90397
Company Name : Advent Chembio Private Limited
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2. Hazards Identification**Hazard classification**

Acute toxicity, Oral : Category 3
Acute toxicity, Inhalation : Category 3
Acute toxicity, Dermal : Category 3
Specific target organ toxicity - repeated exposure : Category 2
Acute aquatic toxicity : Category 1
Chronic aquatic toxicity : Category 1

Label elements**Hazard symbol**

Signal word : Danger
Hazard statement : Toxic if swallowed, in contact with skin or if inhaled
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life with long lasting effects.
Precautionary statement : Avoid breathing dust.
Avoid release to the environment.
Wear protective gloves/ protective clothing.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Call a POISON CENTER or doctor/ physician.
Dispose of contents/ container to an approved waste disposal plant.
Supplemental Hazard Statements : None.

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3. Composition/information on ingredients

Ingredient	CAS No
Diphenylamine	122-39-4

4. First Aid Measures**Description of first aid measures**

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin contact	: Wash off with soap and plenty of water. Consult a physician.
Eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Swallowed	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delayed	: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11
Indication of any immediate medical attention and special treatment needed	: No data available
Treatment	

5. Fire fighting measures

Extinguishing media	
Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	: Carbon oxides, Nitrogen oxides (NOx)
Advice for firefighters	: Wear self contained breathing apparatus for fire fighting if necessary
Further information	: No data available

6. Accidental Release Measures

Personal precautions, protective equipment and emergency	: Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
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MATERIAL SAFETY DATA SHEET**Product Name:** Diphenylamine**CAS No.:** 122-39-4**Version:** 0**procedures****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.

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.

Reference to other sections

: For disposal see section 13.

7. Handling and Storage**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.

Conditions for safe storage, including any incompatibilities

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

Specific end use(s)

: No data available

8. Exposure Controls Personal Protection**Control parameters****Components with workplace control parameters****Exposure controls****Appropriate engineering controls**

: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment**Eye/face protection**

: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection Hand 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

: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace..

Respiratory protection

: Respiratory protection is required.

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9. Physical and Chemical Properties

Appearance	: White crystalline powder.
Odor	: No data available
pH	: No data available
Melting point/freezing point	: 50 - 53 °C - lit.
Initial boiling point and boiling range	: 302 °C - lit.
Flash Point	: 153 °C - closed cup
Vapor pressure	: 1 h Pa at 108 °C
Vapor density	: No data available
Relative density	: 1.160 g/cm ³
Solubility in water	: 65 g/l at 20 °C
Solubility (other)	: insoluble
Formula	: (C ₆ H ₅) ₂ NH
Molecular Weight	: 169.22g/mol

10. Stability and Reactivity

Reactivity	: No data available
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: No data available
Conditions to avoid	: No data available
Incompatible materials	: Strong oxidizing agents, Strong acids
Hazardous decomposition products	: No data available

11. Toxicological Information**Information on toxicological effects**

Acute toxicity	: LD50 Oral - Rat - 1.120 mg/kg
Skin corrosion/irritation	: No data available
Serious eye damage/eye irritation	: No data available
Respiratory or skin sensitization	: No data available
Germ cell mutagenicity	: No data available
Carcinogenicity	: 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	: Developmental Toxicity - Rat - Oral

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- Specific target organ toxicity - single exposure** : Specific Developmental Abnormalities: Urogenital system.
: No data available.
- Specific target organ toxicity - repeated exposure** : May cause damage to organs through prolonged or repeated exposure.
- Aspiration hazard** : No data available
- Signs and Symptoms of Exposure** : To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological Information

- Toxicity** : LC50 - Pimephales promelas (fathead minnow) - 3,79 mg/l - 96,0 h
: LC0 - Leuciscus idus (Golden orfe) - 20 mg/l - 48,0 h
: Toxicity to daphnia and other aquatic
: Invertebrates EC50 - Daphnia magna (Water flea) - 0,27 - 0,36 mg/l - 48 h
: Toxicity to algae EC50 – Desmodesmus subspicatus (green algae) - 0,048 mg/l - 72
- Persistence and degradability** : Result: - According to the results of tests of biodegradability this product is not readily biodegradable.
- Bioaccumulative potential** : Cyprinus carpio (Carp)
: Bioconcentration factor (BCF): 253
- Mobility in soil** : No data available.
- Other adverse effects** : Very toxic to aquatic life with long lasting effects.

13. Disposal consideration

- Disposal instructions** : Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.
- Contaminated packaging** : Dispose of as unused product.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	3077	Diphenylamine	9	III	YES
IMDG	3077	Diphenylamine	9	III	YES
IATA	3077	Diphenylamine	9	III	YES

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This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information**Issue Date :**01/08/2014**Version : 0**

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