RESEARCH LAB FINE CHEM INDUSTRIES

A GMP CERTIFIED COMPANY

MATERIAL SAFETY DATA SHEET

According to Indian Regulation No. 1907/2006

Revision Date: 04.05.2024
GENERIC MSDS – No Country Specific Data

1. Section - Chemical Product Name and Company Identification

1.1 Productidentifiers

PRODUCT NAME	:	**N,N-DIMETHYLANILINE For Synthesis**
CAS. NO.	:	121-69-7
MOL. FORMULA	:	$C_8H_{11}N$
MOL.WT.	:	121.18
PRODUCT CODE	:	00629, 0629A
SYNONYM	:	dimethyl aniline

1.2 Company Identification

Brand	:	**RESEARCH LAB FINE CHEM INDUSTRIES**
Marketing Office	:	1, Devkaran Mansion, 3rd Floor, 79, Princess Street, Mumbai, Maharashtra, India
Mobile Phone	:	(+91) 7977676445 / 8450999955
Email ID	:	info@researchlab.in

2. Section - Composition, Information on Ingredients

INGREDIENT	:	**N,N-Dimethylaniline For Synthesis**
CAS. NO.	:	121-69-7
PERCENT	:	99-99.5%
HAZARDOUS	:	yes
PRODUCT CODE	:	00629, 0629A

3. Section Hazardous Identification

3.1 Classification of the substance or mixture

Acute toxicity, (Category 3) H301: Toxic if swallowed.
Acute toxicity, (Category 3) H331: Toxic if inhaled.
Acute toxicity, (Category 3) H311: Toxic in contact with skin
Carcinogenicity, (Category 2) H351: Suspected of causing cancer.
Long-term (chronic) aquatic hazard, (Category 2) H411: Toxic to aquatic life with long lasting effects

4. Section - First Aid Measures

4.1 Description of first-aid measures

General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
If inhaled
After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.
In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.
In case of eye contact
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.
If swallowed
After swallowing: immediately make victim drink water (two glasses at most). 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

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5. Section - Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Nitrogen oxides (NOx)
Combustible.
Vapors are heavier than air and may spread along floors.
Forms explosive mixtures with air on intense heating.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for fire-fighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Section - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

6.2 Environmental precautions
Do not let product enter drains

6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts

6.4 Methods and materials for containment and cleaning up
No data available

7. Section - Handling and Storage

7.1 Precautions for safe handling
Advice on safe handling
Work under hood. Do not inhale substance/mixture
Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge
Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance

7.2 Conditions for safe storage, including any incompatibilities
Storage conditions
Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons
Storage class
Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
NA

8. Section - Exposure Controls, Personal Protection

8.1 Control parameters
Ingredients with workplace control parameters

8.2 Exposure controls
Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.
Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves.
Respiratory protection
Recommended Filter type: Filter a (acc. to DIN 3181) for vapours of organic compounds the entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
Body Protection
protective clothing
Respiratory protection
Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds.

9. Section - Physical and Chemical Properties

Physical state	:	liquid
Colour	:	light yellow
Odor	:	unpleasant
Melting point/freezing point	:	Melting point/range: 1,5 - 2,5 °C - lit.
Initial boiling point and boiling range	:	193 - 194 °C - lit.
Flammability (solid, gas)	:	No data available
Upper/lower flammability	:	Upper explosion limit: 7 %(V) Lower explosion limit: 1 %(V)
Flash point	:	75 °C - closed cup - DIN 51758
Autoignition temperature	:	590 °C at 1.013 hPa - DIN 51794
Decomposition temperature	:	No data available
PH	:	7,4 at 1,2 g/l at 20 °C
Viscosity	:	Viscosity, kinematic: No data available Viscosity, dynamic: 1,2 mPa.s at 30 °C
Water solubility	:	ca.1 g/l
Partition coefficient	:	log Pow: 2,62 - Bioaccumulation is not expected
Vapour pressure	:	13 hPa at 70 °C 1 hPa at 10 °C
Density	:	0,956 g/cm3 at 25 °C - lit.
Relative density	:	No data available
Relative vapour density	:	No data available
Particle characteristics	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

10. Section - Stability and Reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating.
A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) . hygroscopic

10.3 Possibility of hazardous reactions

Violent reactions possible with:
Oxidizing agents
acid halides
anhydrides
halogens
acids

10.4 Conditions to avoid

Strong heating

10.5 Incompatible materials

iron

11. Section - Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 951 mg/kg
Remarks: Behavioral:Somnolence (general depressed activity).
Behavioral:Tremor.
Cyanosis
LC50 Inhalation - 4 h - 3,1 mg/l - vapor
Acute toxicity estimate Inhalation - 3,1 mg/l - vapor
(ATE value derived from LD50/LC50 value)
LD50 Dermal - Rabbit - 1.692 mg/kg
Remarks: (RTECS)

Skin corrosion/irritation

Skin - Rabbit
Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation

Eyes - Rabbit
Result: Mild eye irritation - 24 h
(OECD Test Guideline 405)

Respiratory or skin sensitization

No data available
Germ cell mutagenicity
Test Type: Hamster
Test system: Lungs
Remarks: Micronucleus test
Test Type: Hamster
Test system: ovary
Remarks: Sister chromatid exchange
Remarks: DNA damage
Carcinogenicity
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. Limited evidence of carcinogenicity in animal studies
Reproductive toxicity
No data available.
Specific target organ toxicity - single exposure
No data available
Specific target organ toxicity - repeated exposure
May cause damage to organs through prolonged or repeated exposure. Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Aspiration hazard
No data available

12. Section - Ecological Information

12.1 Toxicity
Toxicity to fish flow-through test LC50 - Pimephales promelas (fathead minnow) - 78,2 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 2,3 mg/l - 48 h
Toxicity to algae static test NOEC - Chlorella pyrenoidosa - 14 mg/l - 72 h
Toxicity to bacteria EC50 - Tetrahymena pyriformis - 110 mg/l - 24 h

12.2 Persistence and Degradability
Biodegradability Biotic/Aerobic - Exposure time 28 d Result: 75 % - Readily biodegradable

12.3 Bio-accumulative potential
Bioaccumulation Oryzias latipes(N,N-dimethylaniline) Bioconcentration factor (BCF): 13,6

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 or toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties
Product:
Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

12.7 Other adverse effects
No data available

13. Section - Disposal Considerations

13.1 Waste treatment methods
No data available

14. Section - Transport Information

14.1 UN number

ADR/RID	:	2253
IMDG	:	2253
IATA	:	2253

14.2 UN proper shipping name

ADR/RID	:	N,N-DIMETHYLANILINE
IMDG	:	N,N-DIMETHYLANILINE
IATA	:	N,N-DIMETHYLANILINE

14.3 Transport hazard class (es)

ADR/RID	:	6.1
IMDG	:	6.1

	IATA	:	6.1
14.4	Packaging group		
	ADR/RID	:	II
	IMDG	:	II
	IATA	:	II
14.5	Environmental hazards		
	ADR/RID	:	yes
	IMDG Marine Pollutant	:	yes
	IATA	:	no
14.6	Special precautions for user		

No data available

15. Section - Regulatory Information

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

This material safety data sheet 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

16. Section - Additional Information

Not Regulated.