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1-Naphthylamine
CAS No 134-32-7MATERIAL SAFETY DATA SHEET
SDS/MSDS

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

1.1	Product identifiers Product name	:	1-Naphthylamine
	CAS-No.	:	134-32-7
1.2	Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	Details of the supplier of t Company		safety data sheet Central Drug House (P) Ltd 7/28 Vardaan House New Delhi-10002 INDIA
	Telephone Email	:	+91 11 49404040 care@cdhfinechemical.com
1.4	Emergency telephone nu Emergency Phone #		er +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

Acute toxicity, Oral (Category 4), H302 Acute toxicity, Dermal (Category 2), H310 Carcinogenicity (Category 1A), H350 Chronic aquatic toxicity (Category 2), H411

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Т	Toxic	R45
Xn	Harmful	R22
Ν	Dangerous for the	R51/53
	environment	

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram



	Hazard statement(s) H302 H310 H350 H411	Harmful if swallowed. Fatal in contact with sk May cause cancer. Toxic to aquatic life wit		
	Precautionary statement(s) P201 P273 P280 P302 + P350 P310		vironment.	
	Supplemental Hazard Statements	none		
	Restricted to professional use	rs.		
2.3			ered to be either persistent, bioac (vPvB) at levels of 0.1% or high	
SEC	TION 3: Composition/informat	ion on ingredients		
3.1	Substances Synonyms	: -Naphthylamine 1-Aminonaphthalene		
	Formula	: C _{10H9N}		
	Molecular weight CAS-No.	: 143,19 g/mol : 134-32-7		
	Hazardous ingredients acco Component	ording to Regulation (EC)	No 1272/2008 Classification	Concentration
	1-Naphthylamine			
	EC-No. 2	134-32-7 205-138-7 612-020-00-2	Acute Tox. 4; Acute Tox. 2; Aquatic Chronic 2; H302, H310, H411	<= 100 %
	2-Naphthylamine			
	EC-No. 2	91-59-8 202-080-4 612-022-00-3	Acute Tox. 4; Carc. 1A; Aquatic Chronic 2; H302, H350, H411	>= 0,01 - < 0,1 %
	Hazardous ingredients acco Component	ording to Directive 1999/4	5/EC Classification	Concentration
	1-Naphthylamine			
	CAS-No. EC-No.	134-32-7 205-138-7 612-020-00-2	Xn, N, R22 - R51/53	<= 100 %
	2-Naphthylamine			
	EC-No. 2	91-59-8 202-080-4 612-022-00-3	T, N, Carc.Cat.1, R45 - R22 - R51/53	>= 0,01 - < 0,1 %
	For the full toys of the U. Otata	monto and D. Dhrance mar	tionad in this Section, and Section	- 16

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For the full text of the H-Statements and R-Phrases 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.

If 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. Take victim immediately to hospital. 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, Nitrogen oxides (NOx)

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

Wear respiratory protection. 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

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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. Avoid exposure - obtain special instructions before use.

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.

Recommended storage temperature 2 - 8 °C

Air and light sensitive. Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

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

Components with workplace control parameters

8.2 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

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

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use

respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid Colour: light brown
b)	Odour	Ammonia odor
c)	Odour Threshold	No data available
d)	рН	7,1 at 1 g/l at 20 °C
e)	Melting point/freezing point	Melting point/range: 47 - 50 °C - lit.
f)	Initial boiling point and boiling range	301 °C - lit.
g)	Flash point	157 °C - closed cup
h)	Evaporation rate	No data available

	i)	Flammability (solid, gas)	No data available
	j)	Upper/lower flammability or explosive limits	No data available
	k)	Vapour pressure	0,095 hPa at 50 °C 0,012 hPa at 30 °C 0,004 hPa at 20 °C
	I)	Vapour density	No data available
	m)	Relative density	1,114 g/mL at 25 °C
	n)	Water solubility	1,7 g/l at 20 °C
	o)	Partition coefficient: n- octanol/water	log Pow: 2,1
	p)	Auto-ignition temperature	460 °C
	q)	Decomposition temperature	No data available
	r)	Viscosity	No data available
	s)	Explosive properties	No data available
	t)	Oxidizing properties	No data available
9.2	Oth	ner safety information	
		Bulk density	ca.560 kg/m3
SECT	TION	10: Stability and reactivit	у.
10.1	Rea No	ctivity data available	
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 Oxidizing agents		
10.6	Hazardous decomposition products 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 LD50 Oral - Rat - 680 mg/kg		
	LC50 Inhalation - Rat - 4 h - 0,056 mg/m3		
	LD	50 Dermal - Rat - male - 44	7 mg/kg
	LD	50 Dermal - Rat - female - 2	200 - 1.000 mg/kg
	Ski	n corrosion/irritation n - Rabbit	
	Res	sult: No skin irritation - 24 h	

Serious eye damage/eye irritation Eyes - Rabbit Result: Mild eye irritation

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity No data available

Carcinogenicity

This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (1-Naphthylamine)

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard

No data available

Additional Information

RTECS: QM1400000

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

LC50 - Oryzias latipes - 7 mg/l - 48,0 h

LC100 - Oncorhynchus mykiss (rainbow trout) - 6 - 8 mg/l - 48,0 h

12.2 Persistence and degradability

Biodegradability Biotic/Aerobic - Exposure time 28 d Result: < 1 % - Not readily biodegradable.

12.3 Bioaccumulative potential
BioaccumulationCyprinus carpio (Carp)

Bioconcentration factor (BCF): 54

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

Toxic to aquatic life with long lasting effects.

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 chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1	UN number ADR/RID: 2077	IMDG: 2077	IATA: 2077
14.2	UN proper shipping nameADR/RID:alpha-NAPHTHYLAMIIIMDG:alpha-NAPHTHYLAMIIIATA:alpha-Naphthylamine		
14.3	Transport hazard class(es) ADR/RID: 6.1	IMDG: 6.1	IATA: 6.1
14.4	Packaging group ADR/RID: III	IMDG: III	IATA: III
14.5	Environmental hazards ADR/RID: yes	IMDG Marine pollutant: yes	IATA: no
14.6	Special precautions for user		

Special precautions for user No data available

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 190 7/2006.

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

No data available

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.

Acute Tox.	Acute toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H350	May cause cancer.
H411	Toxic to aquatic life with long lasting effects.

Full text of R-phrases referred to under sections 2 and 3

N	Dangerous for the environment
Т	Toxic
R22	Harmful if swallowed.
R45	May cause cancer.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Xn	Harmful

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be 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.