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Quinoline CAS No 91-22-5

MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1	Product identifiers	
	Product name	: Quinoline
	CAS-No.	: 91-22-5
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 th Company	e safety data sheet Central Drug House (P) Ltd 7/28 Vardaan House New Delhi-10002 INDIA
		+91 11 49404040 care@cdhfinechemical.com
1.4	Emergency telephone num	ber
	Emergency Phone #	+91 11 49404040 (9:00am - 6:00 pm) [Office hours]
SECT	FION 2: Hazards identification	
2.1	Classification of the substa	nce or mixture
	Classification according to Acute toxicity, Oral (Category Acute toxicity, Dermal (Category Skin irritation (Category 2), H Eye irritation (Category 2), H Germ cell mutagenicity (Cate Carcinogenicity (Category 1B	orý 4), H312 315 119 gory 2), H341

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

		R45
		R68
Xn	Harmful	R21/22
Xi	Irritant	R36/38
Ν	Dangerous for the	R51/53
	environment	

Chronic aquatic toxicity (Category 2), H411

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

(alto)	
nger Acute toxicity Aspin	Hazardous to the

Signal word	Danger Acuse toxicity Angination Instantinguale environment
Hazard state ment(s)	
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H411	Toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
Supplemental Hazard Statements	none
Restricted to professional users.	

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	1-Benzazine 2,3-Benzopyridine
Formula	:	C9H7N
Molecular Weight	:	129,16 g/mol
CAS-No.	:	91-22-5
EC-No.	:	202-051-6
Index-No.	:	613-281-00-5
Registration number	:	01-2119660884-27-XXXX

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Classification	Concentration
Quinoline			
CAS-No.	91-22-5	Acute Tox. 3; Acute Tox. 4;	<= 100 %
EC-No. Index-No.	202-051-6 613-281-00-5	Skin Irrit. 2; Eye Irrit. 2; Muta. 2; Carc. 1B; Aquatic Chronic	
Registration number		2; H301, H312, H315, H319, H341, H350, H411	
		- ,,	
Hazardous ingredients ad	cording to Directive 1999/4	5/EC	
Hazardous ingredients ac Component	ccording to Directive 1999/4	5/EC Classification	Concentration
•	cording to Directive 1999/4		Concentration
Component Quinoline CAS-No.	91-22-5	Classification T, N, Carc.Cat.2, Mut.Cat.3,	Concentration <= 100 %
Component Quinoline	-	Classification	

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 fire fighting 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 breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. 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 Soak up with inert absorbent material and dispose of as hazardous waste. 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 exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

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. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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 respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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: clear, liquid Colour: colourless, light yellow
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	рН	no data available
e)	Melting point/freezing point	Melting point/range: -1713 °C - lit.
f)	Initial boiling point and boiling range	113 - 114 °C at 15 hPa - lit. 237 °C - lit.
g)	Flash point	101 °C - closed cup
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available

	k)	Vapour pressure	0,09 hPa at 20 °C 1 hPa at 59,7 °C
	I)	Vapour density	4,46 - (Air = 1.0)
	m)	Relative density	1,093 g/cm3 at 25 °C
	n)	Water solubility	no data available
	o)	Partition coefficient: n- octanol/water	no data available
	p)	Auto-ignition temperature	no data available
	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	
		Dissociation constant	4,9
		Relative vapour density	4,46 - (Air = 1.0)
SECT	ΓΙΟΝ	10: Stability and reactivi	ty
10.1		i ctivity data available	
10.2		mical stability ble under recommended s	torage conditions.
10.3		sibility of hazardous rea data available	ctions
10.4		iditions to avoid data available	

- 10.5 Incompatible materials Strong oxidizing agents, Strong acids
- 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 - 262 mg/kg (OECD Test Guideline 401)

LD50 Dermal - rat - 1.377 mg/kg (OECD Test Guideline 402)

Skin corrosion/irritation

Skin - rabbit Result: Skin irritation - 24 h

Serious eye damage/eye irritation no data available

Respiratory or skin sensitisation no data available

Germ cell mutagenicity In vitro tests showed mutagenic effects mouse lymphocyte Mutation in mammalian somatic cells.

rat Liver Unscheduled DNA synthesis

mouse Micronucleus test

mouse Mutation in mammalian somatic cells.

Carcinogenicity

Possible human carcinogen

IARC: 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

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: VA9275000

Effects due to ingestion may include:, Liver injury may occur.

SECTION 12: Ecological information

12.1 Toxicity

no data available

Toxicity to daphnia and LC50 - Daphnia magna (Water flea) - 34,5 mg/l - 48 h other aquatic invertebrates

12.2 Persistence and degradability

Biodegradability

Biotic/Aerobic - Exposure time 14 d Result: < 6 % - Not readily biodegradable.

12.3 Bioaccumulative potential Bioaccumulation

Pimephales promelas (fathead minnow) - 6 d - 163 µg/l

Bioconcentration factor (BCF): 8

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

Toxic to aquatic life with long lasting effects.

no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1	UN number ADR/RID: 2656	IMDG: 2656	IATA: 2656	
14.2	UN proper shipping nameADR/RID:QUINOLINEIMDG:QUINOLINEIATA:Quinoline			
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			

no data available

SECTION 15: Regulatory information

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

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
Eye Irrit.	Eye irritation
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H411	Toxic to aquatic life with long lasting effects.
Muta.	Germ cell mutagenicity

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

Ν	Dangerous for the environment
Т	Toxic
R21/22	Harmful in contact with skin and if swallowed.
R36/38	Irritating to eyes and skin.
R45	May cause cancer.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R68	Possible risk of irreversible effects.

Further 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. 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.