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Naphthalene CAS No 91-20-3

MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1	Product identifiers Product name	:	Naphthalene
	CAS-No.	:	91-20-3
1.2 Relevant identified uses of the substance or mixture and uses advised against			e substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	Details of the supplier of the 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
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1.4 Emergency telephone number Emergency Phone # : +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 Flammable solids (Category 2), H228 Acute toxicity, Oral (Category 4), H302 Carcinogenicity (Category 2), H351 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

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

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram



Signal word

H228

Hazard statement(s)

Flammable solid.

H302 H351 H410	Harmful if swallowed. Suspected of causing cancer. Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P370 + P378	In case of fire: Use dry powder or dry sand to extinguish.
Supplemental Hazard Statements	none

2.3 Other hazards

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.

SECTION 3: Composition/information on ingredients

3.1	Substances Formula	:	С _{10Н8}			
	Molecular weight CAS-No. EC-No. Index-No.	:	128,17 g/mol 91-20-3 202-049-5 601-052-00-2			
	Hazardous ingredients according to Regulation (EC) No 1272/2008ComponentClassificationConcentration					
	Naphthalene CAS-No. EC-No.	• •	-20-3 2-049-5	Flam. Sol. 2; Acute Tox. 4; Carc. 2; Aquatic Acute 1;	<= 100 %	

H302, H351, H400, H410 M-Factor - Aquatic Acute: 10

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

601-052-00-2

SECTION 4: First aid measures

Index-No.

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.

Aquatic Chronic 1; H228,

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. 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
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. 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

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

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. Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition -No smoking.Take measures to prevent the build up of electrostatic charge. 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. Storage class (TRGS 510): Flammable solid 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

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 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, Flame retardant antistatic protective clothing., 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: flakes, granules Colour: white
b)	Odour	aromatic
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: 79,5 - 81,0 °C
f)	Initial boiling point and boiling range	218 °C - lit.
g)	Flash point	80,0 °C - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 5,9 %(V) Lower explosion limit: 0,9 %(V)
k)	Vapour pressure	1,3 hPa at 53,0 °C 0,04 hPa at 25,0 °C

	I)	Vapour density	No data available	
	m)	Relative density	1,085 g/cm3 at 24,7 °C	
	n)	Water solubility	0,0308 g/l at 25 °C - OECD Test Guideline 105 - slightly soluble	
	o)	Partition coefficient: n- octanol/water	log Pow: 3,4 at 25 °C	
	p)	Auto-ignition temperature	526,0 °C	
	q)	Decomposition temperature	No data available	
	r)	Viscosity	1,05 mm2/s at 81,5 °C -	
	s)	Explosive properties	No data available	
	t)	Oxidizing properties	No data available	
9.2	Oth	ner safety information		
		Surface tension	31,8 mN/m at 100,0 °C	
SECT	ΓΙΟΝ	10: Stability and reactivi	ty	
	Rea	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 Heat, flames and sparks.			
10.5	Incompatible materials Strong oxidizing agents			
10.6	Hazardous decomposition products Other decomposition products - No data available In the event of fire: see section 5			
SECT		11: Toxicological inform	ation	
11.1	Information on toxicological effects			
	Acute toxicity LD50 Oral - Rat - 490,0 mg/kg			
	LC50 Inhalation - Rat - male and female - 4 h - > 0,4 mg/l (OECD Test Guideline 403)			
	0 mg/kg			
	Ski	n corrosion/irritation n - Rabbit sult: No skin irritation - 24 ł	ı	
	Eye	ious eye damage/eye irr es - Rabbit sult: Mild eye irritation	itation	
	Ma: Res	spiratory or skin sensitis ximisation Test (GPMT) - (sult: Does not cause skin s ECD Test Guideline 406)	Guinea pig	

Germ cell mutagenicity

Ames test S. typhimurium Result: negative

Rat - male Result: negative

Carcinogenicity

Carcinogenicity - Rat - male and female - inhalation (vapour) Tumorigenic:Tumors at site or application.

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

Limited evidence of carcinogenicity in animal studies

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Naphthalene)

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

Repeated dose
toxicityRat - male and female - Oral - NOAEL : 100 mg/kg - LOAEL : 400 mg/kg - OECD
Test Guideline 408RTECS: QJ0525000

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., Naphthalene is retinotoxic and systemic

absorption of its vapors above 15ppm, may result in:, cataracts, optic neuritis, corneal injury, Eye irritation, Ingestion may provoke the following symptoms:, hemolytic anemia, hemoglobinuria, Nausea, Headache, Vomiting, Gastrointestinal disturbance, Convulsions, anemia, Kidney injury may occur., Seizures., Coma.

Heart -

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 7,9 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 2,16 mg/l - 48 h

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: 2 % - Not readily biodegradable.

12.3 Bioaccumulative potential

Bioaccumulation Fish

Bioconcentration factor (BCF): 427 - 1.15

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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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.

SECTION 14: Transport information

14.1	UN numbe ADR/RID: 1	-	IMDG: 1334	IATA: 1334
14.2	UN proper shipping nameADR/RID:NAPHTHALENE, CRUDEIMDG:NAPHTHALENE, CRUDEIATA:Naphthalene, crude			
14.3	Transport I ADR/RID: 4	nazard class(es) 4.1	IMDG: 4.1	IATA: 4.1
14.4	Packaging ADR/RID: I	• •	IMDG: III	IATA: III
14.5	Environme ADR/RID: y	ntal hazards /es	IMDG Marine pollutant: yes	IATA: no

14.6 Special precautions for user No data available

SECTION 15: Regulatory information

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

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

- H228 Flammable solid.
- H302 Harmful if swallowed.
- H351 Suspected of causing cancer.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting 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.