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FLUORENE CAS No 86-73-7

MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1	Product identifiers			
	Product name	:	Fluorene	

CAS-No. : 86-73-7

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 the safety data sheet

Company	: Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002
	INDIA
Telephone	: +91 11 49404040
Email	: <u>care@cdhfinechemical.com</u>

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

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



Warning

Signal word Hazard statement(s) H410 Precautionary statement(s) P273 P501 Supplemental Hazard

Avoid release to the environment. Dispose of contents/ container to an approved waste disposal plant. none

Very toxic to aquatic life with long lasting effects.

Statements

2.3 Other hazards

3.1

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

Substances			
Formula	: C ₁₃ H ₁₀		
Molecular weight	: 166.22 g/mol		
CAS-No.	: 86-73-7		
EC-No.	: 201-695-5		
Hazardous ingredien	ts according to Regulati	on (EC) No 1272/2008	
Component		Classification	Concentration
Fluorene			
CAS-No.	86-73-7	Aquatic Acute 1; Aquatic	<= 100 %

CAS-No. EC-No.	86-73-7 201-695-5	Aquatic Acute 1; Aquatic Chronic 1; H400, H410	<:

M-Factor - Aquatic Acute: 1

For the full text of the H-Statements 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. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

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
- 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 Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. 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

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. Storage class (TRGS 510): Non Combustible Solids
- **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

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

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

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., 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 not required. Where protection from nuisance le (EN 143) dust masks. 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

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity No data available

9.2

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 Strong oxidizing agents
- 10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides 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 Intraperitoneal - Mouse - > 2.0 mg/kg(Fluorene)

Skin corrosion/irritation No data available(Fluorene)

Serious eye damage/eye irritation No data available(Fluorene)

Respiratory or skin sensitisation No data available(Fluorene)

Germ cell mutagenicity

No data available(Fluorene)

Carcinogenicity

This product is or contains a component that is not classifiable as to its classification.(Fluorene) (Fluorene)

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

Reproductive toxicity No data available(Fluorene)

Specific target organ toxicity - single exposure

No data available(Fluorene)

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard

No data available(Fluorene)

Additional Information

RTECS: LL5670000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Fluorene)

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

LC50 - Fish - 0.82 mg/l - 96 h(Fluorene) Toxicity to daphnia and other aquatic invertebrates Remarks: No data available(Fluorene)

SECTION 12: Ecological information

12.1 Toxicity

12.2

Toxicity to fish	LC50 - Fish - 0.82 mg/l - 96 h(Fluorene)	
Toxicity to daphnia and other aquatic invertebrates	Remarks: No data available(Fluorene)	
Toxicity to algae	EC50 - Algae - 3.4 mg/l - 96 h(Fluorene)	
Persistence and degradability No data available		
Bioaccumulative potential		

 12.3 Bioaccumulative potential

 Bioaccumulation

 Oncorhynchus mykiss (rainbow trout) - 24 h

 - 0.0191 mg/l(Fluorene)

Bioconcentration factor (BCF): 512

12.4 Mobility in soil

Adsorbs on soil.(Fluorene)

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.

No data available

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 chem scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1	UN numbe ADR/RID: 3	-	IMDG: 3077	IATA: 3077
14.2		ENVIRONMENTALLY	Y HAZARDOUS SUBSTANCE, SOL Y HAZARDOUS SUBSTANCE, SOLI rdous substance, solid, n.o.s. (Fluore	ID, N.O.S. (Fluorene)
14.3	Transport ADR/RID: 9	hazard class(es)	IMDG: 9	IATA: 9
14.4	Packaging ADR/RID: I	• •	IMDG: III	IATA: III
14.5	Environme ADR/RID: y	e ntal hazards res	IMDG Marine pollutant: no	IATA: yes

14.6 Special precautions for user

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

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.

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.