

SAFETY DATA SHEET

PREPARED BY: SAFETY COMMITTEE, THOMAS BAKER (CHEMICALS) PVT. LTD.
FACTORY: B3 AND B4 MIDC CHEMICAL ZONE, AMBERNATH WEST,
THANE, MAHARASHTRA, 421501 (INDIA). TEL: + 91 9307304329 | 9223070 00 3
EMAIL: qc@thomasbaker.com | sales@thomasbaker.com
GST NO.: 27AACT4221B1ZY | CIN NO.: U24114MH1980PTC023396
Revision Date 01.09.2026



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

1.1 Product identifiers

Product name : ACENAPHTHENE FOR SYNTHESIS
Article No. : 0034
Brand : Thomas Baker
CAS Number : 83-32-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Chemical for synthesis

1.3 Details of the supplier of the safety data sheet

Company Name: Thomas Baker (Chemicals) Pvt. Ltd.
B3 & B4, MIDC, Chemical Zone, Ambernath 421501. Dist: Thane, India.

1.4 Emergency telephone

Emergency Phone # : +91 9307304329

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Hazardous to the aquatic : Category 1
environment - acute
hazard

Hazardous to the aquatic : Category 1
environment – chronic
hazard

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008



Hazard pictograms

Signal word

Warning



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Hazard statement(s)

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention:

P273

Avoid release to the environment.

Response:

P391

Collect spillage.

Disposal:

P501

Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

CAS-No. : 83-32-9

Components

Chemical name	CAS-No.	Concentration (% w/w)
acenaphthene	83-32-9	>= 60 -<= 100

SECTION 4: FIRST-AID MEASURES

4.1. Description of first aid measures

General advice : Show this safety data sheet to the doctor in attendance.

If inhaled : After inhalation: fresh air.

In case of skin contact : In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact : After eye contact: rinse out with plenty of water.
Remove contact lenses.



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If swallowed : After swallowing: make victim drink water (two glasses at most).
Consult doctor if feeling unwell.

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

Protection of first-aiders : For personal protection see section 8.

Notes to physician : No data available

SECTION 5: 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

Specific hazards during fire fighting : Combustible.

Vapours 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.



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Hazardous combustion : Nature of decomposition products not known.
Products

5.3 Advice for firefighters

Special protective equipment and precautions for fire-fighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Advice for non-emergency personnel:
Avoid inhalation of dusts.
Evacuate the danger area, observe emergency procedures, consult an expert.
Advice for emergency responders:
For personal protection see section 8.

6.2 Environmental precautions

Environmental precautions : Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills.
Observe possible material restrictions (see sections 7 and 10).
Take up carefully. Dispose of properly. Clean up affected area.
Avoid generation of dusts.



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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling

For precautions see section 2.2.

Precautions for safe handling

Advice on protection : Keep away from open flames, hot surfaces and
against fire and explosion sources of ignition.

Storage

Conditions for safe storage, including any incompatibilities

Further information on : Tightly closed.
storage conditions Dry.

Storage class : 11, Combustible Solids

Recommended storage : 15 - 25 °C
temperature

Further information on : Moisture sensitive.
storage stability Store under inert gas.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control param- eters / Permis- sible concentra- tion	Basis
acenaphthene	83-32-9	TWA (par-	0.2 mg/m3	MY PEL
		ticulate)	(soluble in ben- zene)	



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Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
acenaphthene	83-32-9	1-Hydroxypyrene	Urine	End of shift at end of work-week	2.5 µg/l	ACGIH BEI

8.2 Exposure control

Appropriate engineering controls : No data available

Individual protection measures, such as personal protective equipment (PPE)

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 : protective clothing

Hand protection

Material : Nitrile rubber
Break through time : 480 min
Glove thickness : 0.11 mm
Protective index : Full contact
Manufacturer : KCL 741 Dermatril® L

Material : Nitrile rubber
Break through time : 480 min
Glove thickness : 0.11 mm
Protective index : Splash contact
Manufacturer : KCL 741 Dermatril® L



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- Remarks : 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 (e.g. KCL GmbH, D 36124 Eichenzell, Internet: www.kcl.de).
- Respiratory protection : required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.
- Recommended Filter type: : Filter type P1
- The entrepreneur 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.
- Hygiene measures : Change contaminated clothing. Wash hands after working with substance.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Appearance : solid (20 °C , 1,013 hPa)
- Color : white, light yellow
- Odor : No data available
- Odor Threshold : No data available
- pH : No data available



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Melting point/ range : 92.0 °C

Boiling point/boiling range : 279.0 °C

Flash point : 125.0 °C

Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Flammability (liquids) : No data available

Burning rate : No data available

Upper explosion limit /
Upper flammability limit : No data available

Lower explosion limit /
Lower flammability limit : No data available

Vapor pressure : 13.3 hPa (131.0 °C)

Relative vapour density : No data available

Relative density : No data available

Density : 1.15 g/cm³ (20 °C)

Solubility(ies)
Water solubility : No data available

Partition coefficient: n-
octanol/water : log Pow: 3.39 - 4.19



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Autoignition temperature : > 450 °C

Decomposition temperature : No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Flow time : No data available

Explosive properties : Not classified as explosive.

Oxidizing properties : none

Molecular weight : 154.21 g/mol

Particle characteristics : No data available
Particle size

SECTION 10: 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.

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Violent reactions possible with:

Oxidizing agents



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10.4. Conditions to avoid

Strong heating.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - > 16,000 mg/kg

Remarks: (IUCLID)

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

Test Type: Ames test

Test system: Salmonella typhimurium

Result: negative

Remarks: (IUCLID)

Carcinogenicity

No data available



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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

11.2 Additional Information

RTECS: AB1000000

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

Absorption can result in damage to:

Liver

Kidney

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.



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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Components:

acenaphthene:

Toxicity to fish : LC50 (Salmo trutta): 0.58 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test
Remarks: (ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.45 mg/l
Exposure time: 48 h
Remarks: (IUCLID)

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.52 - 0.53 mg/l
Exposure time: 96 h
Remarks: (ECOTOX Database)

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

12.2 Persistence and degradability

No data available



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12.3 Bioaccumulative potential

Components:

acenaphthene:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill)
Bioconcentration factor (BCF): 387
Exposure time: 28 d
Concentration: 0.00894 mg/l

Partition coefficient: n-octanol/water : log Pow: 3.39 - 4.19

12.4 Mobility in soil

No data available

Other adverse effects

Components:

acenaphthene:

Additional ecological information : Discharge into the environment must be avoided.

Endocrine disrupting properties

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal methods

Waste from residues : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.
According to Quality Environment Regulation (Scheduled Waste) 2005, waste need to be sent to designated premise for recycle, treatment or disposal. Please contact Kualiti Alam for waste classification and correct disposal method.



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SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR/RID: UN 3077 IMDG: UN 3077 IATA: UN 3077

14.2 UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (acenaphthene)
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (acenaphthene)
IATA : Environmentally hazardous substance, solid, n.o.s. (acenaphthene)

14.3 Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: yes IATA: no

14.6 Special precautions for user

Remarks : 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.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.



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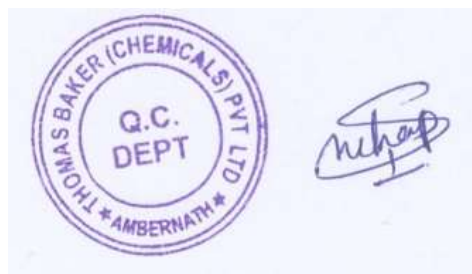
SECTION 15: REGULATORY INFORMATION

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

SECTION 16: OTHER INFORMATION

NA

FOR THOMAS BAKER (CHEMICALS) PVT. LTD.



AUTHORISED SIGNATORY.

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