

# Material Safety Data Sheet



ACETYL ACETONE AR

VERSION : 05  
REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

Product Code : 21080

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## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name : ACETYL ACETONE AR  
Product code : 21080  
Identification of the product : ACETYL ACETONE AR  
CAS No : 123-54-6  
EC Index-No. : 606-029-00-0  
EC No. : 204-634-0  
Synonyms : 2,4-Pentanedione, Pentane-2,4-dione

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

Identified uses : Laboratory chemicals, Manufacture of substances

### 1.3. Details of the supplier of the safety data sheet

Company identification  
MOLYCHEM INDIA LLP  
Office: Maker Tower 'E', 41-A2, 4th Floor, Above Maker Arcade, Cuffe Parade, Mumbai 400 005 (INDIA)  
Tel: +91 22 4066 8111, 2205 7772 .  
Email : [info@molychem.net](mailto:info@molychem.net)  
Works: Plot No. B/9, Badlapur M.I.D.C.,  
OPP.Shobhavat Textile Co., Kulgaon, Badlapur (E),  
Dist.-Thane-421 503.

### 1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226  
Acute toxicity (oral), Category 4 H302  
Acute toxicity (dermal), Category 3 H311  
Acute toxicity (inhal.), Category 3 H331

Full text of H- and EUH-statements: see section 16

### Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Toxic in contact with skin. Toxic if inhaled. Harmful if swallowed.

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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Hazard pictograms (CLP)



GHS02



GHS07

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H302 - Harmful if swallowed

H226 - Flammable liquid and vapour.

H311+H331 - Toxic in contact with skin or if inhaled.

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 - Wear protective clothing, eye protection, face protection, protective gloves

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

P302+P352 - IF ON SKIN: Wash with plenty of water

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P311 - Call a POISON CENTER or doctor.

P330 - Rinse mouth.

## 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## 3. Composition/information on ingredients

### 3.1. Substances

Name : ACETYL ACETONE AR

CAS-No : 123-54-6

### 3.2. Mixtures

Not applicable

## 4. First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. If breathing is difficult, remove victim to fresh air and keep

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First-aid measures after skin contact : at rest in a position comfortable for breathing. Call a doctor  
First-aid measures after eye contact : Get medical advice/attention. Wash with plenty of water/.... Rinse skin with water/shower. Take off immediately all contaminated clothing  
First-aid measures after ingestion : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention  
First-aid measures after ingestion : Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Call a poison center or a doctor if you feel unwell.

## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.  
Unsuitable extinguishing media : Do not use extinguishing media containing water.

### 5.2. Special hazards arising from the substance or mixture

Explosion hazard : May form flammable/explosive vapour-air mixture.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

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## 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Avoid contact with skin, eyes and clothing. Avoid breathing dust, fume, gas, mist, spray, vapours.

## 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/ personal protection"

Emergency procedures : Ventilate area.

## 6.2. Environmental precautions

Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. On land, sweep or shovel into suitable containers. Collect spillage. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

## 6.4. Reference to other sections

For further information refer to section 13.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Keep away from sources of ignition - No smoking. Do not breathe vapours. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, spray, mist, vapours.

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Hygiene measures

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

## 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.

Storage conditions

: Keep in fireproof place. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Storage away from

: Open flame. Sparks. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

## 7.3. Specific end use(s)

No additional information available

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

Eye protection

: Chemical goggles or safety glasses

Hand protection

: Wear protective gloves

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Skin protection : Wear suitable protective clothing  
Respiratory protection : Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection.  
Thermal hazards : No additional information available

## 8.2.3 Environmental exposure controls

Avoid release to the environment

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : Liquid  
Appearance : Clear liquid.  
Molecular mass : 100.12 g/mol  
Colour : colourless to slightly yellow  
Odour : ester like  
Odour threshold : No data available  
pH : 6 at 20°C  
Relative evaporation rate : 0.75  
Melting point : No data available  
Freezing point : -23 °C  
Boiling point : 139 – 141 °C  
Flash point : 35 °C  
Auto-ignition temperature : 340 °C  
Decomposition temperature : No data available  
Flammability (solid, gas) : Flammable Flammable liquid and vapour, Not applicable  
Vapour pressure : 7.9 hPa at 20°C  
Relative vapour density at 20 °C : 3.5 (Air = 1)  
Relative density : No data available  
Density : 0.971-0.974g  
Solubility : Water: 153.5 g/l at 20°C - Completely miscible  
Partition coefficient n-octanol/water (Log Pow) : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive properties : No data available  
Oxidising properties : No data available  
Explosive limits : No data available

### 9.2. Other information

Refractive index (n)<sub>D</sub><sup>20</sup> : 1.451-1.453

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## 10. Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapour

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Open flame. Direct sunlight. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

May release flammable gases.

## 11. Toxicological information

### 11.1. Information on toxicological effects

|                                   |                               |
|-----------------------------------|-------------------------------|
| Acute toxicity (oral)             | : Harmful if swallowed.       |
| Acute toxicity (dermal)           | : Toxic in contact with skin. |
| Acute toxicity (inhalation)       | : Toxic if inhaled.           |
| Skin corrosion/irritation         | : Not classified              |
| Additional information            | : Not classified              |
| Serious eye damage/irritation     | : Not classified              |
| Respiratory or skin sensitisation | : Not classified              |
| Germ cell mutagenicity            | : Not classified              |
| Carcinogenicity                   | : Not classified              |
| Reproductive toxicity             | : Not classified              |
| STOT-single exposure              | : Not classified              |
| STOT-repeated exposure            | : Not classified              |
| Aspiration hazard                 | : Not classified              |

## 12. Ecological information

### 12.1. Toxicity

|                                       |                                                                                                                       |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Ecology - general                     | The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, | Not classified                                                                                                        |

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short-term (acute)

Hazardous to the aquatic environment, long-term (chronic) Not classified

## 12.2. Persistence and degradability

No additional information available

## 12.3. Bioaccumulative potential

No additional information available

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Other adverse effects

No additional information available

## 13. Disposal considerations

### 13.1. Waste treatment methods

|                                            |                                                                                                                                                               |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions                                                                  |
| Product/Packaging disposal recommendations | : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
| Additional information                     | : Handle empty containers with care because residual vapours are flammable. Flammable vapours may accumulate in the container.                                |

## 14. Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

### 14.1. UN number

|               |           |
|---------------|-----------|
| UN-No. (ADR)  | : UN 2310 |
| UN-No. (IMDG) | : UN 2310 |
| UN-No. (IATA) | : UN 2310 |
| UN-No. (ADN)  | : UN 2310 |
| UN-No. (RID)  | : UN 2310 |

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : PENTANE-2,4-DIONE

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|                                       |                                                       |
|---------------------------------------|-------------------------------------------------------|
| Proper Shipping Name (IMDG)           | : PENTANE-2,4-DIONE                                   |
| Proper Shipping Name (IATA)           | : Pentane-2,4-dione                                   |
| Proper Shipping Name (ADN)            | : PENTANE-2,4-DIONE                                   |
| Proper Shipping Name (RID)            | : PENTANE-2,4-DIONE                                   |
| Transport document description (ADR)  | : UN 2310 PENTANE-2,4-DIONE, 3 (6.1), III, (D/E)      |
| Transport document description (IMDG) | : UN 2310 PENTANE-2,4-DIONE, 3 (6.1), III (34°C c.c.) |
| Transport document description (IATA) | : UN 2310 Pentane-2,4-dione, 3 (6.1), III             |
| Transport document description (ADN)  | : UN 2310 PENTANE-2,4-DIONE, 3 (6.1), III             |
| Transport document description (RID)  | : UN 2310 PENTANE-2,4-DIONE, 3 (6.1), III             |

## 14.3. Transport hazard class(es)

### ADR

|                                  |           |
|----------------------------------|-----------|
| Transport hazard class(es) (ADR) | : 3 (6.1) |
| Danger labels (ADR)              | : 3, 6.1  |

### IMDG

|                                   |           |
|-----------------------------------|-----------|
| Transport hazard class(es) (IMDG) | : 3 (6.1) |
| Danger labels (IMDG)              | : 3, 6.1  |

### IATA

|                                   |           |
|-----------------------------------|-----------|
| Transport hazard class(es) (IATA) | : 3 (6.1) |
| Danger labels (IATA)              | : 3, 6.1  |

### ADN

|                                  |           |
|----------------------------------|-----------|
| Transport hazard class(es) (ADN) | : 3 (6.1) |
| Danger labels (ADN)              | : 3, 6.1  |

### RID

|                                  |           |
|----------------------------------|-----------|
| Transport hazard class(es) (RID) | : 3 (6.1) |
| Danger labels (RID)              | : 3, 6.1  |

## 14.4. Packing group

|                      |       |
|----------------------|-------|
| Packing group (ADR)  | : III |
| Packing group (IMDG) | : III |
| Packing group (IATA) | : III |
| Packing group (ADN)  | : III |
| Packing group (RID)  | : III |

## 14.5. Environmental hazards

|                               |                                          |
|-------------------------------|------------------------------------------|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| Other information             | : No supplementary information available |

## 14.6. Special precautions for user

### Overland transport

|                           |       |
|---------------------------|-------|
| Classification code (ADR) | : FT1 |
| Limited quantities (ADR)  | : 51  |

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Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P001, IBC03, R001  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T4  
Portable tank and bulk container special provisions (ADR) : TP1  
Tank code (ADR) : L4BH  
Vehicle for tank carriage : FL  
Transport category (ADR) : 3  
Special provisions for carriage - Operation (ADR) : S2  
Hazard identification number (Kemler No.) : 36  
Tunnel restriction code (ADR) : D/E  
EAC code : •2Y

## Transport by sea

Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P001  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1  
EmS-No. (Fire) : F-E  
EmS-No. (Spillage) : S-D  
Stowage category (IMDG) : A  
Flash point (IMDG) : 34°C c.c  
MFAG-No : 131

## Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y343  
PCA limited quantity max net quantity (IATA) : 2L  
PCA packing instructions (IATA) : 355  
PCA max net quantity (IATA) : 60L  
CAO packing instructions (IATA) : 366  
CAO max net quantity (IATA) : 220L  
ERG code (IATA) : 3P

## Inland waterway transport

Classification code (ADN) : FT1  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E1

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Carriage permitted (ADN) :  
Equipment required (ADN) : PP, EP, EX, TOX, A  
Ventilation (ADN) : VE01, VE02  
Number of blue cones/lights (ADN) : 0

## Rail transport

Classification code (RID) : FT1  
Limited quantities (RID) : 5L  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P001, IBC03, R001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T4  
Portable tank and bulk container special provisions (RID) : TP1  
Tank codes for RID tanks (RID) : L4BH  
Transport category (RID) : 3  
Colis express (express parcels) (RID) : CE4  
Hazard identification number (RID) : 36

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## 15. Regulatory information

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

#### 15.1.1 EU-Regulations

##### EU restriction list (REACH Annex XVII)

| Reference code Applicable on | Reference code Applicable on |
|------------------------------|------------------------------|
| 3(a)                         | ACETYL ACETONE               |
| 3(b)                         | ACETYL ACETONE               |
| 40                           | ACETYL ACETONE               |

ACETYL ACETONE is not on the REACH Annex XIV List

ACETYL ACETONE is not on the REACH Candidate List

ACETYL ACETONE is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

ACETYL ACETONE is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

ACETYL ACETONE is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

## MOLYCHEM INDIA LLP

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Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

## 15.1.2. National regulations

### Germany

Water hazard class (WGK)

: WGK 1, Slightly hazardous to water  
(Classification according to AwSV; ID No. 6)

Hazardous Incident Ordinance (12. BImSchV)

: Is not subject of the Hazardous Incident Ordinance  
(12. BImSchV)

### Netherlands

SZW-lijst van kankerverwekkende stoffen

: The substance is not listed

SZW-lijst van mutagene stoffen

: The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding

: The substance is not listed

SZW-lijst van reprotoxische stoffen –

: The substance is not listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen –

: The substance is not listed

Ontwikkeling

### Denmark

Classification remarks

: Emergency management guidelines for the storage  
of flammable liquids must be followed

Danish National Regulations

: Young people below the age of 18 years are not  
allowed to use the product Pregnant/breastfeeding  
women working with the product must not be in  
direct contact with the product

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## 16. Other information

### Abbreviations and acronyms

|     |                                                                                                 |
|-----|-------------------------------------------------------------------------------------------------|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE | Acute Toxicity Estimate                                                                         |
| BCF | Bioconcentration factor                                                                         |
| BLV | Biological limit value                                                                          |
| BOD | Biochemical oxygen demand                                                                       |

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|                                           |                                                                              |
|-------------------------------------------|------------------------------------------------------------------------------|
| COD                                       | Chemical oxygen demand                                                       |
| COD                                       | Chemical oxygen demand                                                       |
| DMEL                                      | Derived Minimal Effect level                                                 |
| DNEL                                      | Derived-No Effect Level                                                      |
| EC-No.                                    | European Community number                                                    |
| EC50                                      | Median effective concentration                                               |
| EN                                        | European Standard                                                            |
| IARC                                      | International Agency for Research on Cancer                                  |
| IATA                                      | International Air Transport Association                                      |
| IMDG                                      | International Maritime Dangerous Goods                                       |
| LC50                                      | Median lethal concentration                                                  |
| LD50                                      | Median lethal dose                                                           |
| LOAEL                                     | Lowest Observed Adverse Effect Level                                         |
| NOAEC                                     | No-Observed Adverse Effect Concentration                                     |
| NOAEL                                     | No-Observed Adverse Effect Level                                             |
| NOEC                                      | No-Observed Effect Concentration                                             |
| OECD                                      | Organisation for Economic Co-operation and Development                       |
| OEL                                       | Occupational Exposure Limit                                                  |
| PBT                                       | Persistent Bioaccumulative Toxic                                             |
| PNEC                                      | Predicted No-Effect Concentration                                            |
| RID                                       | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                                       | Safety Data Sheet                                                            |
| STP                                       | Sewage treatment plant                                                       |
| ThOD                                      | Theoretical oxygen demand (ThOD)                                             |
| TLM                                       | Median Tolerance Limit                                                       |
| VOC                                       | Volatile Organic Compounds                                                   |
| CAS-No.                                   | Chemical Abstract Service number                                             |
| N.O.S.                                    | Not Otherwise Specified                                                      |
| vPvB                                      | Very Persistent and Very Bioaccumulative                                     |
| ED                                        | Endocrine disrupting properties                                              |
|                                           |                                                                              |
| <b>Full text of H- and EUH-statements</b> |                                                                              |
| Eye Irrit. 2                              | Serious eye damage/eye irritation, Category 2                                |
| Flam. Liq. 2                              | Flammable liquids, Category 2                                                |
| STOT SE 3                                 | Specific target organ toxicity — Single exposure, Category 3, Narcosis       |
| H225                                      | Highly flammable liquid and vapour.                                          |
| H319                                      | Causes serious eye irritation.                                               |
| H336                                      | May cause drowsiness or dizziness.                                           |
| EUH066                                    | Repeated exposure may cause skin dryness or cracking.                        |

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Safety Data Sheet (SDS), EU This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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