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**MATERIAL SAFETY DATA SHEET**

<b>Product Name</b>	<b>ACETYL ACETONE 98% FOR SYNTHESIS</b>
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**1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Trade name : ACETYL ACETONE FOR SYNTHESIS

Product code : A0033

Identification of the product: ACETYL ACETONE FOR SYNTHESIS

CAS No : 123-54-6

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Use: Industrial. For professional use only.

**1.3 Details of the supplier of the safety data sheet**

**Company identification:** CYNOR

National industry, Pipodra GIDC, Surat-394110, Gujarat, India.

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**2. Hazards identification -DSD**

**2.1 Classification of the substance or mixture**

Classification EC 67/548 or EC 1999/45

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4)  
H302

Physical hazards : Flammable liquids - Category 3 - Warning (CLP : Flam. Liq. 3) H226

**2.2 Label element**

Labelling EC 67/548 or EC

1999/45 Symbol(s) : Xn : Harmful

Highly flammable



**R Phrase(s) :** R10 :

Flammable. R22 : Harmful if  
swallowed.

**S Phrase(s) :** S2 : Keep out of the reach of children.

S21 : When using do not smoke.

S23 : Do not breathe the gas, fumes, vapours, spray.

S24/25 : Avoid contact with skin and eyes.

**Labelling Regulation EC 1272/2008 (CLP)**

**Hazard pictograms**



**Signal words :** Warning

**Hazard statements :** H226 : Flammable liquid and vapour.

H302 : Harmful if swallowed.

**Precautionary statements**

- **General :** P102: Keep out of reach of children. P103: Read label before use.  
P101: If medical advice is needed, have product container or label at hand.
- **Prevention :** P240: Ground/bond container and receiving equipment.  
P241: Use explosion-proof electrical, ventilating, lighting, ..., equipment.  
P210: Keep away from heat, sparks, open flames or hot surfaces. – No smoking.  
P280: Wear protective gloves, protective clothing, eye protection, face protection.  
P233: Keep container tightly closed.  
P264: Wash thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.
- **Response :** P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.  
P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.  
P370+P378: In case of fire: Use for extinction.
- **Storage :** P403+P235: Store in well-ventilated place. Keep cool.
- **Disposal considerations :** P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**2.3 Other hazards**

**Other hazards :** The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**3. Composition/information on ingredients**

**Substance / Preparation:** ACETYL ACETONE

CAS No :123-54-6

Substance.

Contains no other components or impurities which will influence the classification of the product.

**4. First aid measures**

**4.1 Description of first aid measures**

**Inhalation :** Assure fresh air breathing. Allow the victim to rest.

**Skin contact :** Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.

**Eye contact :** Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

**Ingestion :** Obtain emergency medical attention. Rinse mouth. Call a POISON CENTER or doctor if you feel unwell. Do NOT induce vomiting.

**4.2 Most important symptoms and effects, both acute and delayed**

**Symptoms relating to use :** 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**

**General information :** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

#### **5. Fire-fighting measures**

##### **5.1 Extinguishing media**

**Suitable extinguishing media :** Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media :** Do not use a heavy water stream.

**Surrounding fires :** Use water spray or fog for cooling exposed containers.

##### **5.2 Specific hazards arising from the substance or mixture**

**Hazardous combustion products :** Under fire conditions, hazardous fumes will be present.

##### **5.3 Advice for fire-fighters**

**Protection against fire :** Do not enter fire area without proper protective equipment, including respiratory protection.

**Special procedures :** Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

#### **6. Accidental release measures**

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

**For emergency responders :** Equip cleanup crew with proper protection. Ventilate area.

**Technical measures :** Use special care to avoid static electric charges.

**Special precautions :** Remove ignition sources. No naked lights. No smoking.

**For non-emergency personnel :** Evacuate unnecessary personnel.

##### **6.2 Environmental precautions**

**Environmental precautions :** Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

**Clean up methods :** Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

##### **6.4 Reference to other sections**

See section 8. Exposure controls/personal protection

#### **7. Handling and storage**

##### **7.1 Precautions for safe handling**

**Handling :** Handle empty containers with care because residual vapours are flammable. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Take precautionary measures against static discharge.

**Technical protective measures :** Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools. Use explosion-proof electrical, ventilating, lighting, ..., equipment.

**Special precautions :** No naked lights. No smoking.

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

**Storage :** Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Keep container tightly closed. Ground/bond container and receiving equipment.

**Storage - away from :** Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

**7.3 Specific end use(s)**

Specific end use(s) : None.

**8. Exposure controls/personal protection**

**8.1 Control parameter**

**Occupational Exposure Limits** : No data available

**8.2 Exposure control**

**Personal protection** : Avoid all unnecessary exposure.

- **Respiratory protection** : Wear approved mask.
- **Hand protection** : Wear protective gloves.
- **Eye protection** : Chemical goggles or safety glasses.
- **Others** : When using, do not eat, drink or smoke.

**9. Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Physical state at 20 °C** : Liquid.

**Odour threshold** : No data available.

**pH value** : No data available.

**Melting point [°C]** : -230C

**Decomposition point [°C]** : N/A

**Critical temperature [°C]** : N/A

**Auto-ignition temperature [°C]** : 340 °C

**Flammability (solid, gas)** : Flammable liquid and vapour.  
Flammable.

**Flash point [°C]** : 34 °C

**Boiling point [°C]** : 139 - 141°C

**Initial boiling point [°C]** : N/A

**Final boiling point [°C]** : N/A

**Evaporation rate** : 0,75

**Vapour pressure [20°C]** : N/A

**Vapour pressure mm/Hg** : 6 mm Hg

**Vapour density** : 3,5

**Density [g/cm<sup>3</sup>]** : 0,973

**Relative density, gas (air=1)** : 3,5

**Relative density, liquid (water=1)** : N/A

**Solubility in water [% weight]** : Complete.

**Solubility in water** : N/A

**Log Pow octanol / water at 20°C** : No data available.

**Solubility** : N/A

**Viscosity at 40°C [mm<sup>2</sup>/s]** : N/A

**9.2 Other information**

**Explosive properties** : N/A

**Explosion limits - upper [%] : 11,60%**

**Explosion limits - lower [%] : 2,40%**

**Oxidising properties : No data available.**

#### **10. Stability and reactivity**

##### **10.1 Reactivity**

**Reactivity :** Not established.

##### **10.2 Chemical stability**

**Chemical stability :** Stable under recommended storage conditions.

##### **10.3 Possibility of hazardous reactions**

**Hazardous reactions :** Not established.

##### **10.4 Conditions to avoid**

**Conditions to avoid :** Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

##### **10.5 Incompatible materials**

**Materials to avoid :** Strong acids. Strong bases.

##### **10.6 Hazardous decomposition products**

**Hazardous decomposition products :** Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases.

#### **11. Toxicological information**

##### **11.1 Information on toxicological effects**

###### **Acute toxicity**

• **Inhalation :** Based on available data, the classification criteria are not met.

• **Dermal :** Based on available data, the classification criteria are not met.

• **Ingestion :** Harmful if swallowed.

**Corrosion :** Based on available data, the classification criteria are not met.

**Irritation :** Based on available data, the classification criteria are not met.

**Sensitization :** Based on available data, the classification criteria are not met.

**Mutagenicity :** Based on available data, the classification criteria are not met.

**Carcinogenicity :** Based on available data, the classification criteria are not met.

**Toxic for reproduction :** Based on available data, the classification criteria are not met.

**STOT-single exposure :** Based on available data, the classification criteria are not met.

**STOT-repeated exposure :** Based on available data, the classification criteria are not met.

**Aspiration hazard :** Based on available data, the classification criteria are not met.

#### **12. Ecological information**

##### **12.1 Toxicity**

**Toxicity information :** Not established.

##### **12.2 Persistence - degradability Persistence - degradability**

**Biodegradability :** Biodegradable.

##### **12.3 Bioaccumulative potential Bioaccumulative potential**

**potential :** Not established.

##### **12.4 Mobility in soil**

**Mobility in soil :** Not established.

##### **12.5 Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment :** The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH

**12.6 Other adverse effects**

**Environmental precautions :** Avoid release to the environment.

**13. Disposal considerations**

**13.1Waste treatment methods**

**General :** Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**Special precautions :** Handle empty containers with care because residual vapours are flammable.

**14. Transport information**

**Land transport (ADR-RID)**

**Proper shipping name :** Acetyl Acetone

**UN N° :** 2310

**H.I. nr :** 36

**ADR - Class :** 3.6.1

**Labelling - Transport :** 3 : Flammable liquid. 6.1 : Toxic substances.

**ADR - Classification code :** FT1

**15. Regulatory information**

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

**Safety, health and environmental :** Ensure all national/local regulations are observed.

**regulations/legislation specific for the substance or mixture**

**REACH Restrictions - Annex XVII :** The components of this product are not subject to restrictions.

**REACH Authorisation - Annex XIV :** The components of this product are not subject to authorization.

**15.2Chemical Safety Assessment**

**Chemical Safety Assessment :** It has not been carried out.

**16. Other information**

**Abbreviations and acronyms :** PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative

**Sources of key data used :** REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006



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**Further information : None.**

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**End of document**

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