

# MATERIAL SAFETY DATA SHEET (SDS/MSDS)

**ACETONE 99.5% AR**

CAS-No.: 67-64-1

Product Code: 00028

Molecular Formula: C<sub>3</sub>H<sub>6</sub>O

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**Chemnovo**

DRIVEN BY CHEMISTRY, DEFINED BY PRECISION

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

### 1.1. Product identifier

Product form	:	Substance
Trade name	:	Acetone 99.5% AR
EC-No.	:	200-662-2
CAS No	:	67-64-1
Synonyms	:	Propanone / Dimethyl ketone

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Industrial;For professional use only

#### 1.2.2. Uses advised against

No additional information available

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

Company : Chemnovo Synthesis Pvt Ltd.  
N-226 Near Kumbhavali Naka  
Tarapur MIDC, Boisar-401 506  
Palghar, Maharashtra  
Telephone : +91 7400096089  
Email: export@chemnovo.in

### 1.4. Emergency telephone number

Emergency number : + 91 7400096089 (9:00am - 6:00 pm)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Flammable liquids, H225

Category 2

Serious eye damage/eye H319

irritation, Category 2

Specific target organ H336

toxicity – Single

exposure, Category 3,

Narcosis

Full text of H statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11

Xi; R36

R66

R67

Full text of R-phrases: see section 16

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Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP)	:	Danger
Hazard statements (CLP)	:	H225 - Highly flammable liquid and vapour. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.
Precautionary statements (CLP)	:	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name	:	Acetone 99.5% AR
CAS-No.	:	67-64-1
EC-No.	:	200-662-2

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

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	:	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Call a POISON CENTER/doctor if you feel unwell.
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First-aid measures after skin contact	:	Rinse skin with water/shower. Take off immediately all contaminated clothing. Repeated exposure may cause skin dryness or cracking.
First-aid measures after eye contact	:	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	:	Rinse mouth out with water. If you feel unwell, seek medical advice.

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

Symptoms/effects after inhalation	:	May cause drowsiness or dizziness.
Symptoms/effects after eye contact	:	Causes serious eye irritation.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	:	dry chemical powder, alcohol-resistant foam, carbon dioxide (Co <sub>2</sub> ).
Unsuitable extinguishing media	:	Do not use a heavy water stream.

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

Fire hazard	:	Highly flammable liquid and vapour.
Explosion hazard	:	May form flammable/explosive vapour-air mixture.

### 5.3. Advice for firefighter

Protection during firefighting	:	Do not enter fire area without proper protective equipment,
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## SECTION 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	:	Evacuate unnecessary personnel.
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#### 6.1.2. For emergency responders

Protective equipment	:	Avoid breathing dust/fume/gas/mist/vapours/spray.
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### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up	:	Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
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### 6.4. Reference to other sections

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No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed	:	Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	:	No open flames. No smoking. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling.

#### 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 container tightly closed. Keep in fireproof place. Store in original container. Store in a well-ventilated place.
Incompatible materials	:	Heat sources.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Hand protection	:	protective gloves
Eye protection	:	Chemical goggles or safety glasses
Skin and body protection	:	Wear suitable protective clothing
Respiratory protection	:	wear respiratory protection.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Molecular mass	:	58.08 g/mol
Colour	:	Clear Colorles.
Odour	:	fragrant, mint-like.
Odour threshold	:	62 ppm
pH:	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	-95.35 °C
Freezing point	:	No data available
Boiling point	:	56.2 °C

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Flash point	:	-20 °C
Critical temperature	:	235 °C
Auto-ignition temperature	:	4650 °C
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Extremely flammable Highly flammable liquid and vapour.
Vapour pressure	:	24 kPa
Relative vapour density at 20 °C	:	2
Relative density	:	No data available
Density	:	0.79 g/cm <sup>3</sup>
Relative gas density	:	2
Solubility	:	Water: Complete
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

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Open flame. Direct sunlight.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

May release flammable gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	:	Not classified.
Skin corrosion/irritation	:	Not classified
Additional information	:	Repeated exposure may cause skin dryness or cracking.

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Serious eye damage/irritation	:	Causes serious eye irritation
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	May cause drowsiness or dizziness.
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 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

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

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.

### SECTION 14: Transport information

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

#### 14.1. UN number

UN-No. (ADR)	:	1090
UN-No. (IMDG)	:	1090
UN-No.(IATA)	:	1090
UN-No.(AND)	:	1090
UN-No. (RID)	:	1090

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### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	:	ACETONE
Proper Shipping Name (IMDG)	:	ACETONE
Proper Shipping Name (IATA)	:	ACETONE
Proper Shipping Name (ADN)	:	ACETONE
Proper Shipping Name (RID)	:	ACETONE
Transport document description (ADR)	:	UN 1090 ACETONE, 3, II, (D/E)
Transport document description (IMDG)	:	UN 1090 ACETONE, 3, II (-20°C c.c.)
Transport document description (IATA)	:	UN 1090 ACETONE, 3, II
Transport document description (ADN)	:	UN 1090 ACETONE, 3, II
Transport document description (RID)	:	UN 1090 ACETONE, 3, II

### 14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	:	3
Danger labels (ADR)	:	3
	:	



IMDG

Transport hazard class(es) (IMDG)	:	3
Danger labels (IMDG)	:	3
	:	



IATA

Transport hazard class(es) (IATA)	:	3
Hazard labels (IATA)	:	3
	:	

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AND

Transport hazard class(es) (ADN) : 3

Danger labels (AND) : 3

:



RID

Transport hazard class(es) (RID) : 3

Danger labels (RID) : 3

:



#### 14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

#### 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) : F1

Limited quantities (ADR) : 1l

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Excepted quantities (ADR)	:	E2
Packing instructions (ADR)	:	P001, IBC02, 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)	:	LGBF
Vehicle for tank carriage	:	FL
Transport category (ADR)	:	2
Special provisions for carriage - Operation (ADR)	:	S2, S20
Hazard identification number (Kemler No.)	:	33
Orange plates	:	

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Tunnel restriction code (ADR)	:	D/E
EAC code	:	•2YE
- Transport by sea	:	
Special provisions (IMDG)	:	223
Limited quantities (IMDG)	:	5 L
Excepted quantities (IMDG)	:	E1
Packing instructions (IMDG)	:	P001, Lp01
IBC packing instructions (IMDG)	:	IBC03
Tank instructions (IMDG)	:	T2
Tank special provisions (IMDG)	:	Tp1
EmS-No. (Fire)	:	F-E
EmS-No. (Spillage)	:	S-D
Stowage category (IMDG)	:	E
Flash point (IMDG)	:	-20°C to -18°C c.c.
MFAG-No	:	127
- Air transport	:	
PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y341
PCA limited quantity max net quantity (IATA)	:	1L
PCA packing instructions (IATA)	:	353
PCA max net quantity (IATA)	:	5L
CAO packing instructions (IATA)	:	364

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CAO max net quantity (IATA)	:	60L
ERG code (IATA)	:	3H
- Inland waterway transport		
Classification code (ADN)	:	F1
Limited quantities (ADN)	:	1 L
Excepted quantities (ADN)	:	E2
Carriage permitted (AND)	:	T
Equipment required (ADN)	:	PP, EX, A
Ventilation (ADN)	:	Ve01
Number of blue cones/lights (ADN)	:	1
- Rail transport		
Classification code (RID)	:	F1
Limited quantities (RID)	:	1L
Excepted quantities (RID)	:	E2
Packing instructions (RID)	:	P001, IBC02, 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)	:	LGBF
Transport category (RID)	:	2
Colis express (express parcels) (RID)	:	Ce7
Hazard identification number (RID)	:	33

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

ACETONE 99.5% AR is not on the REACH Candidate List

ACETONE 99.5% AR is not on the REACH Annex XIV List

#### 15.1.2. National regulations

##### Germany

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

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

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SZW-lijst van kankerverwekkende stoffen :	The substance is not listed
SZW-lijst van mutagene stoffen :	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	The substance is not listed

### Denmark

Classification remarks :	Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation :	Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

Full text of R-, H- and EUH-statements:

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.
R11	Highly flammable
R36	Irritating to eyes
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness
F	Highly flammable
Xi	Irritant

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### 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. Chemnovo Synthesis Pvt Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.chemnovo.in](http://www.chemnovo.in) for additional terms and conditions of sale.

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