

### MATERIAL SAFETY DATA SHEET (MSDS)

#### 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/ACS            |
| EC Index-No. | : 606-001-00-8                    |
| EC-No.       | : 200-662-2                       |
| CAS-No.      | : 67-64-1                         |
| Product code | : 00012                           |
| Formula      | : C <sub>3</sub> H <sub>6</sub> O |
| 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

CHEMIECALL  
Jl. Diklat Pemda, Dukuh Pinang No. 24 RT.001/003  
Kel. Bojong Nangka Kec. Kelapa Dua Tangerang 15821  
Contact: +62(21) 54210228  
[info@chemiecall.com](mailto:info@chemiecall.com) [www.chemiecall.com](http://www.chemiecall.com)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

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

|                                                                                 |      |
|---------------------------------------------------------------------------------|------|
| Flammable liquids,<br>Category 2                                                | H225 |
| Serious eye damage/eye<br>irritation, Category 2                                | H319 |
| Specific target organ<br>toxicity — Single<br>exposure, Category 3,<br>Narcosis | H336 |

Full text of H statements : see section 16

# Acetone 99.5% AR/ACS

## Safety Data Sheet

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

### 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. Substances

Name : ACETONE 99.5% AR/ACS  
CAS-No. : 67-64-1  
EC-No. : 200-662-2  
EC Index-No. : 606-001-00-8

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

### 3.2. Mixtures

Not applicable

# Acetone 99.5% AR/ACS

## Safety Data Sheet

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Give oxygen or artificial respiration if necessary. Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
- First-aid measures after skin contact : If skin irritation occurs: Get medical advice/attention. Gently wash with plenty of soap and water. Take off contaminated clothing.
- First-aid measures after eye contact : If eye irritation persists: Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- 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 firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Use personal protective equipment as required.
- Emergency procedures : Stop release.

#### 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.

#### 6.4. Reference to other sections

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.

# Acetone 99.5% AR/ACS

## Safety Data Sheet

### 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. Use explosion-proof electrical/ventilating/lighting equipment. |
| Storage conditions     | : Keep in fireproof place. Keep container tightly closed. 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   | : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended |

## 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 Colorless.                                           |
| 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                                                    |
| Flash point                                | : -20 °C                                                     |
| Critical temperature                       | : 235 °C                                                     |
| Auto-ignition temperature                  | : 4650 °C                                                    |
| Decomposition temperature                  | : No data available                                          |
| Flammability (solid, gas)                  | : Extremely flammable<br>Highly flammable liquid and vapour. |

# Acetone 99.5% AR/ACS

## Safety Data Sheet

|                                  |                          |
|----------------------------------|--------------------------|
| 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.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

# Acetone 99.5% AR/ACS

## Safety Data Sheet

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 / ADN

#### 14.1. UN number

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

# Acetone 99.5% AR/ACS

## Safety Data Sheet

### 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 |



#### ADN

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



#### RID

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (RID) | : 3 |
|----------------------------------|-----|

# Acetone 99.5% AR/ACS

## Safety Data Sheet

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) : 1I

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 :



Tunnel restriction code (ADR) : D/E

EAC code : •2YE

#### - Transport by sea

Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T4

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.



# Acetone 99.5% AR/ACS

## Safety Data Sheet

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  
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 (ADN) : 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/ACS is not on the REACH Candidate List

Acetone 99.5% AR/ACS is not on the REACH Annex XIV List

#### 15.1.2. National regulations

# Acetone 99.5% AR/ACS

## Safety Data Sheet

### 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

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                                                               |

*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.*