

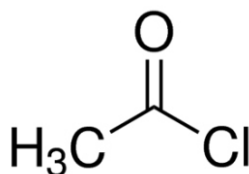
CAS-No.: 75-36-5 MSDS

## MATERIAL SAFETY DATA SHEET (MSDS)

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

## 1.1. Product identifier

Product form : Substance  
:  
:  
EC Index-No. : 607-011-00-5  
EC-No. : 200-865-6  
CAS-No. : 75-36-5  
Product code : 00020  
Chemical structure :



Synonyms : Ethanoyl Chloride / Acyl Chloride

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

## 1.2.1. Relevant identified uses

Industrial/Professional use spec : 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

SPAN LAB  
UNIT NO. 14, SKY INDUSTRIAL ESTATE, WALIV, VASAI (E)  
401208 Mumbai - INDIA  
PH: +91 9820509929  
[info@spanlab.in](mailto:info@spanlab.in) [www.spanlab.in](http://www.spanlab.in)

## 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  
Acute toxicity (oral), H302  
Category 4  
Skin corrosion/irritation, H314  
Category 1B

# ACETYL CHLORIDE Extra Pure

## Safety Data Sheet

Full text of H statements : see section 16

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

F; R11  
C; R34  
R14

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

GHS05

GHS07

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour.  
H302 - Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER/doctor

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name : ACETYL CHLORIDE Extra Pure  
CAS-No. : 75-36-5  
EC-No. : 200-865-6  
EC Index-No. : 607-011-00-5

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

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### 3.2. Mixtures

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.
- First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Immediately call a POISON CENTER/doctor.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

- Symptoms/effects : Causes severe skin burns and eye damage.
- Symptoms/effects after ingestion : Harmful if swallowed.

### 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 powder.
- Unsuitable extinguishing media : Do not use extinguishing media containing water.

### 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

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

#### 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. 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 : 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

# ACETYL CHLORIDE Extra Pure

## Safety Data Sheet

### 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. Do not breathe dust/fume/gas/mist/vapours/spray. |
| Hygiene measures                  | : Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse.         |

#### 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. Comply with applicable regulations. |
| Storage conditions     | : Keep in fireproof place. Keep container tightly closed. Store in dry protected location to prevent any moisture contact.  |
| 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 face shield                                  |
| Skin and body protection | : Wear suitable protective clothing                                |
| Respiratory protection   | : [In case of inadequate ventilation] wear respiratory protection. |

### SECTION 9: Physical and chemical properties

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

|  |                        |
|--|------------------------|
| Physical state                             | : Liquid               |
| Molecular mass                             | : 78.5 g/mol           |
| Colour                                     | : Clear Colorless.     |
| Odour                                      | : strong pungent odor. |
| Odour threshold                            | : No data available    |
| pH   | : No data available    |
| Relative evaporation rate (butylacetate=1) | : No data available    |
| Melting point                              | : -1120 °C             |
| Freezing point                             | : No data available    |
| Boiling point                              | : 520 °C               |
| Flash point                                | : 5 °C                 |

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|                                  |  |
|----------------------------------|--|
| Auto-ignition temperature        | : 3900 °C  |
| Decomposition temperature        | : No data available  |
| Flammability (solid, gas)        | : Highly flammable.<br>Highly flammable liquid and vapour. |
| Vapour pressure                  | : 805.765 hPa  |
| Relative vapour density at 20 °C | : 2.7  |
| Relative density                 | : 1.104  |
| Density                          | : 1.11 g/cm <sup>3</sup>                                   |
| Solubility                       | : Water: Decomposes violently in 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                 | : 0.073 - 0.19 vol %                                       |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapours. Reacts violently with water.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

Highly reactive material. Reacts violently with water.

### 10.4. Conditions to avoid

Open flame. Direct sunlight. Moisture.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

May release flammable gases. Thermal decomposition generates : Corrosive vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Serious eye damage, category 1, implicit

Respiratory or skin sensitisation : Not classified

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|                        |                  |
|------------------------|------------------|
| 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 |

### 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. Do not allow water (or moist air) contact with this material.                     |

### SECTION 14: Transport information

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

#### 14.1. UN number

|               |        |
|---------------|--------|
| UN-No. (ADR)  | : 1717 |
| UN-No. (IMDG) | : 1717 |

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## Safety Data Sheet

UN-No. (IATA) : 1717  
UN-No. (ADN) : 1717  
UN-No. (RID) : 1717

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : ACETYL CHLORIDE  
Proper Shipping Name (IMDG) : ACETYL CHLORIDE  
Proper Shipping Name (IATA) : Acetyl chloride  
Proper Shipping Name (ADN) : ACETYL CHLORIDE  
Proper Shipping Name (RID) : ACETYL CHLORIDE  
Transport document description (ADR) : UN 1717 ACETYL CHLORIDE, 3 (8), II, (D/E)  
Transport document description (IMDG) : UN 1717 ACETYL CHLORIDE, 3 (8), II (5°C c.c.)  
Transport document description (IATA) : UN 1717 Acetyl chloride, 3 (8), II  
Transport document description (ADN) : UN 1717 ACETYL CHLORIDE, 3 (8), II  
Transport document description (RID) : UN 1717 ACETYL CHLORIDE, 3 (8), II

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 3 (8)  
Danger labels (ADR) : 3, 8



#### IMDG

Transport hazard class(es) (IMDG) : 3 (8)  
Danger labels (IMDG) : 3, 8



#### IATA

Transport hazard class(es) (IATA) : 3 (8)  
Hazard labels (IATA) : 3, 8



#### ADN

Transport hazard class(es) (ADN) : 3 (8)  
Danger labels (ADN) : 3, 8



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### RID

Transport hazard class(es) (RID) : 3 (8)

Danger labels (RID) : 3, 8



### 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) : FC

Limited quantities (ADR) : 1I

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T8

Portable tank and bulk container special provisions (ADR) : TP2

Tank code (ADR) : L4BH

Vehicle for tank carriage : FL

Transport category (ADR) : 2

Special provisions for carriage - Operation (ADR) : S2, S20

Hazard identification number (Kemler No.) : X338

Orange plates :



Tunnel restriction code (ADR) : D/E

EAC code : 4WE

APP code : A(fl)

#### - Transport by sea

Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

IBC special provisions (IMDG) : B20

Tank instructions (IMDG) : T8

Tank special provisions (IMDG) : TP2



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|                             |            |
|-----------------------------|------------|
| EmS-No. (Fire)              | : F-E      |
| EmS-No. (Spillage)          | : S-C      |
| Stowage category (IMDG)     | : B        |
| Stowage and handling (IMDG) | : SW2      |
| Flash point (IMDG)          | : 5°C c.c. |
| MFAG-No                     | : 155      |

### - Air transport

|  |        |
|--|--------|
| PCA Excepted quantities (IATA)               | : E2   |
| PCA Limited quantities (IATA)                | : Y340 |
| PCA limited quantity max net quantity (IATA) | : 0.5L |
| PCA packing instructions (IATA)              | : 352  |
| PCA max net quantity (IATA)                  | : 1L   |
| CAO packing instructions (IATA)              | : 363  |
| CAO max net quantity (IATA)                  | : 5L   |
| ERG code (IATA)                              | : 3C   |

### - Inland waterway transport

|                                   |                 |
|-----------------------------------|-----------------|
| Classification code (ADN)         | : FC            |
| Limited quantities (ADN)          | : 1 L           |
| Excepted quantities (ADN)         | : E2            |
| Carriage permitted (ADN)          | : T             |
| Equipment required (ADN)          | : PP, EP, EX, A |
| Ventilation (ADN)                 | : VE01          |
| Number of blue cones/lights (ADN) | : 1             |

### - Rail transport

|   |               |
|---|---------------|
| Classification code (RID)                                 | : FC          |
| Limited quantities (RID)                                  | : 1L          |
| Excepted quantities (RID)                                 | : E2          |
| Packing instructions (RID)                                | : P001, IBC02 |
| Mixed packing provisions (RID)                            | : MP19        |
| Portable tank and bulk container instructions (RID)       | : T8          |
| Portable tank and bulk container special provisions (RID) | : TP2         |
| Tank codes for RID tanks (RID)                            | : L4BH        |
| Transport category (RID)                                  | : 2           |
| Colis express (express parcels) (RID)                     | : CE7         |
| Hazard identification number (RID)                        | : X338        |

### 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

ACETYL CHLORIDE Extra Pure is not on the REACH Candidate List

ACETYL CHLORIDE Extra Pure is not on the REACH Annex XIV List

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### 15.1.2. National regulations

#### Germany

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV; ID No. 784)

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

Class for fire hazard : Class I-1

Store unit : 1 liter

Classification remarks : F <Flam. Liq. 2>; 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:

|                     |  |
|---------------------|--|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4        |
| Flam. Liq. 2        | Flammable liquids, Category 2            |
| Skin Corr. 1B       | Skin corrosion/irritation, Category 1B   |
| H225                | Highly flammable liquid and vapour.      |
| H302                | Harmful if swallowed.                    |
| H314                | Causes severe skin burns and eye damage. |
| R11                 | Highly flammable                         |
| R14                 | Reacts violently with water              |
| R34                 | Causes burns                             |
| C                   | Corrosive                                |
| F                   | Highly flammable                         |

# ACETYL CHLORIDE Extra Pure

## Safety Data Sheet

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*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*