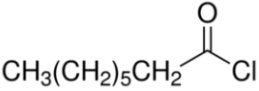


### MATERIAL SAFETY DATA SHEET (MSDS)

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

##### 1.1. Product identifier

|                    |   |
|--------------------|---|
| Product form       | : Substance   |
|                    | :   |
| CAS-No.            | : 111-64-8  |
| Product code       | : 5038K   |
| Chemical structure | :   |
|                    |  |
| Synonyms           | : Capryloyl 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<br>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]

|  |      |
|--|------|
| Corrosive to metals,<br>Category 1               | H290 |
| Acute toxicity<br>(inhalation:gas) Category<br>1 | H330 |
| Skin corrosion/irritation,<br>Category 2         | H315 |
| Serious eye damage/eye<br>irritation, Category 1 | H318 |
| Skin sensitisation,<br>Category 1                | H317 |

Full text of H statements : see section 16

# OCTANOYL CHLORIDE Extra Pure

## Safety Data Sheet

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

Not classified

### 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) :



GHS05

GHS06

Signal word (CLP) : Danger

Hazard statements (CLP) : H290 - May be corrosive to metals.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H330 - Fatal if inhaled.

Precautionary statements (CLP) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P284 - Wear respiratory 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                         | Product identifier | %   |
|------------------------------|--------------------|-----|
| OCTANOYL CHLORIDE Extra Pure | (CAS-No.) 111-64-8 | 100 |

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

### 3.2. Mixtures

Not applicable

# OCTANOYL CHLORIDE Extra Pure

## Safety Data Sheet

### 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.
- First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: 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 : Fatal if inhaled.
- Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Causes serious eye damage.

#### 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

No additional information available

#### 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 : Avoid contact with skin, eyes and clothing.

##### 6.1.2. For emergency responders

- Protective equipment : Use personal protective equipment as required.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

- Methods for cleaning up : Clean contaminated surfaces with an excess of water.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

- Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

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

No additional information available

# OCTANOYL CHLORIDE Extra Pure

## Safety Data Sheet

### 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                             | : 162.65 g/mol            |
| Colour                                     | : Clear Colorless.        |
| Odour                                      | : No data available       |
| Odour threshold                            | : No data available       |
| pH   | : No data available       |
| Relative evaporation rate (butylacetate=1) | : No data available       |
| Melting point                              | : No data available       |
| Freezing point                             | : No data available       |
| Boiling point                              | : 195 °C                  |
| Flash point                                | : 82 °C                   |
| Auto-ignition temperature                  | : No data available       |
| Decomposition temperature                  | : No data available       |
| Flammability (solid, gas)                  | : No data available       |
| Vapour pressure                            | : 0.8 hPa                 |
| Relative vapour density at 20 °C           | : No data available       |
| Relative density                           | : No data available       |
| Density                                    | : 0.953 g/cm <sup>3</sup> |
| Solubility                                 | : No data available       |
| Log Pow                                    | : No data available       |
| Viscosity, kinematic                       | : No data available       |
| Viscosity, dynamic                         | : No data available       |

# OCTANOYL CHLORIDE Extra Pure

## Safety Data Sheet

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

May be corrosive to metals.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Direct sunlight. Overheating.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                                   |  |
|-----------------------------------|--|
| Acute toxicity                    | : Inhalation:gas: Fatal if inhaled.    |
| Skin corrosion/irritation         | : Causes skin irritation.              |
| Serious eye damage/irritation     | : Causes serious eye damage.           |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| 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

# OCTANOYL CHLORIDE Extra Pure

## Safety Data Sheet

### 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

No additional information available

## SECTION 14: Transport information

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

### 14.1. UN number

|               |        |
|---------------|--------|
| UN-No. (ADR)  | : 2927 |
| UN-No. (IMDG) | : 2927 |
| UN-No. (IATA) | : 2927 |
| UN-No. (ADN)  | : 2927 |
| UN-No. (RID)  | : 2927 |

### 14.2. UN proper shipping name

|                                       |  |
|---------------------------------------|--|
| Proper Shipping Name (ADR)            | : TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.                             |
| Proper Shipping Name (IMDG)           | : TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.                             |
| Proper Shipping Name (IATA)           | : Toxic liquid, corrosive, organic, n.o.s.                             |
| Proper Shipping Name (ADN)            | : TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.                             |
| Proper Shipping Name (RID)            | : TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.                             |
| Transport document description (ADR)  | : UN 2927 TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S., 6.1 (8), II, (D/E) |
| Transport document description (IMDG) | : UN 2927 TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S., 6.1 (8), II        |
| Transport document description (IATA) | : UN 2927 Toxic liquid, corrosive, organic, n.o.s., 6.1, II            |
| Transport document description (ADN)  | : UN 2927 TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S., 6.1 (8), II        |
| Transport document description (RID)  | : UN 2927 TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S., 6.1 (8), II        |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |           |
|----------------------------------|-----------|
| Transport hazard class(es) (ADR) | : 6.1 (8) |
| Danger labels (ADR)              | : 6.1, 8  |

# OCTANOYL CHLORIDE Extra Pure

## Safety Data Sheet



### IMDG

Transport hazard class(es) (IMDG) : 6.1 (8)

Danger labels (IMDG) : 6.1, 8



### IATA

Transport hazard class(es) (IATA) : 6.1 (8)

Hazard labels (IATA) : 6.1, 8



### ADN

Transport hazard class(es) (ADN) : 6.1 (8)

Danger labels (ADN) : 6.1, 8



### RID

Transport hazard class(es) (RID) : 6.1 (8)

Danger labels (RID) : 6.1, 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

# OCTANOYL CHLORIDE Extra Pure

## Safety Data Sheet

### 14.6. Special precautions for user

#### - Overland transport

|   |               |
|---|---------------|
| Classification code (ADR)   | : TC1         |
| Special provisions (ADR)  | : 274         |
| Limited quantities (ADR)  | : 100ml       |
| Excepted quantities (ADR)   | : E4          |
| Packing instructions (ADR)  | : P001, IBC02 |
| Mixed packing provisions (ADR)  | : MP15        |
| Portable tank and bulk container instructions (ADR)                     | : T11         |
| Portable tank and bulk container special provisions (ADR)               | : TP2, TP27   |
| Tank code (ADR)   | : L4BH        |
| Tank special provisions (ADR)   | : TU15, TE19  |
| Vehicle for tank carriage   | : AT          |
| Transport category (ADR)  | : 2           |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13, CV28  |
| Special provisions for carriage - Operation (ADR)                       | : S9, S19     |
| Hazard identification number (Kemler No.)                               | : 68          |
| Orange plates   | :             |



|                               |       |
|-------------------------------|-------|
| Tunnel restriction code (ADR) | : D/E |
| EAC code                      | : 2XE |
| APP code                      | : B   |

#### - Transport by sea

|                                    |  |
|------------------------------------|--|
| Special provisions (IMDG)          | : 274  |
| Packing instructions (IMDG)        | : P001   |
| IBC packing instructions (IMDG)    | : IBC02  |
| Tank instructions (IMDG)           | : T11  |
| Tank special provisions (IMDG)     | : TP2, TP27  |
| EmS-No. (Fire)                     | : F-A  |
| EmS-No. (Spillage)                 | : S-B  |
| Stowage category (IMDG)            | : B  |
| Stowage and handling (IMDG)        | : SW2  |
| Properties and observations (IMDG) | : Toxic if swallowed, by skin contact or by inhalation. Causes burns to skin, eyes and mucous membranes. |

#### - Air transport

|  |            |
|--|------------|
| PCA Excepted quantities (IATA)               | : E4       |
| PCA Limited quantities (IATA)                | : Y640     |
| PCA limited quantity max net quantity (IATA) | : 0.5L     |
| PCA packing instructions (IATA)              | : 653      |
| PCA max net quantity (IATA)                  | : 1L       |
| CAO packing instructions (IATA)              | : 660      |
| CAO max net quantity (IATA)                  | : 30L      |
| Special provisions (IATA)                    | : A4, A137 |
| ERG code (IATA)                              | : 6C       |



# OCTANOYL CHLORIDE Extra Pure

## Safety Data Sheet

### - Inland waterway transport

|                                   |                  |
|-----------------------------------|------------------|
| Classification code (ADN)         | : TC1            |
| Special provisions (ADN)          | : 274, 802       |
| Limited quantities (ADN)          | : 100 ml         |
| Excepted quantities (ADN)         | : E4             |
| Carriage permitted (ADN)          | : T              |
| Equipment required (ADN)          | : PP, EP, TOX, A |
| Ventilation (ADN)                 | : VE02           |
| Number of blue cones/lights (ADN) | : 2              |

### - Rail transport

|   |                    |
|---|--------------------|
| Classification code (RID)   | : TC1              |
| Special provisions (RID)  | : 274              |
| Excepted quantities (RID)   | : E4               |
| Packing instructions (RID)  | : P001, IBC02      |
| Mixed packing provisions (RID)  | : MP15             |
| Portable tank and bulk container instructions (RID)                     | : T11              |
| Portable tank and bulk container special provisions (RID)               | : TP2, TP27        |
| Tank codes for RID tanks (RID)  | : L4BH             |
| Special provisions for RID tanks (RID)                                  | : TU15             |
| Transport category (RID)  | : 2                |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW28, CW31 |
| Colis express (express parcels) (RID)                                   | : CE5              |
| Hazard identification number (RID)                                      | : 68               |

### 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

OCTANOYL CHLORIDE Extra Pure is not on the REACH Candidate List

OCTANOYL CHLORIDE Extra Pure 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. 6468)

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

##### Netherlands

# OCTANOYL CHLORIDE Extra Pure

## Safety Data Sheet

|   |                               |
|---|-------------------------------|
| 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 III-1  |
| Store unit                        | : 50 liter   |
| Classification remarks            | : Flammable according to the Danish Ministry of Justice; 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. 1 (Inhalation:gas) | Acute toxicity (inhalation:gas) Category 1    |
| Eye Dam. 1                    | Serious eye damage/eye irritation, Category 1 |
| Met. Corr. 1                  | Corrosive to metals, Category 1               |
| Skin Irrit. 2                 | Skin corrosion/irritation, Category 2         |
| Skin Sens. 1                  | Skin sensitisation, Category 1                |
| H290                          | May be corrosive to metals.                   |
| H315                          | Causes skin irritation.                       |
| H317                          | May cause an allergic skin reaction.          |
| H318                          | Causes serious eye damage.                    |
| H330                          | Fatal if inhaled.                             |

*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*