

### 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   | : HYDROCHLORIC ACID EXTRA PURE |
| EC index no  | : 017-002-01-X                 |
| EC no        | : 231-595-7                    |
| CAS No       | : 7647-01-0                    |
| Product code | : 0172A                        |

##### 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]

Skin corrosion/irritation, H314  
Category 1B  
Specific target organ H335  
toxicity — Single  
exposure, Category 3,  
Respiratory tract irritation

Full text of classification categories and H statements : see section 16

###### Classification according to Directive 67/548/EEC or 1999/45/EC

C; R34  
Xi; R37

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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] Extra labelling to display Extra classification(s) to display

Hazard pictograms (CLP) :



GHS05

GHS07

Signal word (CLP) : Danger

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage  
H335 - May cause respiratory irritation

Precautionary statements (CLP) : 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 doctor  
P261 - Avoid breathing vapours, dust, fume, gas

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name : HYDROCHLORIC ACID EXTRA PURE  
CAS No : 7647-01-0  
EC no : 231-595-7  
EC index no : 017-002-01-X

Full text of R- and H-phrases: 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 victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

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|                                      |  |
|--------------------------------------|--|
| 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 or doctor/physician. |
| First-aid measures after ingestion   | : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.   |

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

|                                    |  |
|------------------------------------|--|
| Symptoms/injuries                  | : Causes severe skin burns and eye damage. |
| Symptoms/injuries after inhalation | : May cause respiratory 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   | : Carbon dioxide. Dry powder. Foam. Water spray. |
| 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 enter fire area without proper protective equipment, including respiratory protection. |
|--------------------------------|---|

## 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 | : 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 | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. |
|-------------------------|--|

### 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. Do not breathe vapours. Use only outdoors or in a well-ventilated area. Provide good ventilation in process area to prevent formation of vapour. |
| Hygiene measures              | : Wash contaminated clothing before reuse. 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 | : Keep container tightly closed. Store in a well-ventilated place. |
|--------------------|--|

### 7.3. Specific end use(s)

No additional information available

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### 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   | : Wear respiratory protection       |

### SECTION 9: Physical and chemical properties

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

|  |                         |
|--|-------------------------|
| Physical state                             | : Solid                 |
| Colour                                     | : Clear colourless.     |
| Odour                                      | : pungent odor.         |
| Odour threshold                            | : No data available     |
| pH   | : No data available     |
| Relative evaporation rate (butylacetate=1) | : No data available     |
| Melting point                              | : -30 °C                |
| Freezing point                             | : No data available     |
| Boiling point                              | : 110 °C                |
| Flash point                                | : No data available     |
| Auto-ignition temperature                  | : No data available     |
| Decomposition temperature                  | : No data available     |
| Flammability (solid, gas)                  | : No data available     |
| Vapour pressure                            | : 225 hPa at 20°C       |
| Relative vapour density at 20 °C           | : No data available     |
| Relative density                           | : No data available     |
| Density                                    | : 1.2 g/cm <sup>3</sup> |
| Solubility                                 | : Water: Soluble        |
| Log Pow                                    | : No data available     |
| Viscosity, kinematic                       | : No data available     |
| Viscosity, dynamic                         | : 2.3 mPa.s at 15°C     |
| Explosive properties                       | : No data available     |

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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

Thermal decomposition generates : Corrosive vapours.

### 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. Air contact. Water, humidity.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

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

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

### HYDROCHLORIC ACID EXTRA PURE (7647-01-0)

|                      |                               |
|----------------------|-------------------------------|
| Viscosity, kinematic | 1.91666667 mm <sup>2</sup> /s |
|----------------------|-------------------------------|

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### 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 ...

### SECTION 14: Transport information

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

#### 14.1. UN number

|               |        |
|---------------|--------|
| UN-No. (ADR)  | : 1789 |
| UN-No. (IMDG) | : 1789 |
| UN-No.(IATA)  | : 1789 |
| UN-No.(ADN)   | : 1789 |
| UN-No. (RID)  | : 1789 |

#### 14.2. UN proper shipping name

|                                       |   |
|---------------------------------------|---|
| Proper Shipping Name (ADR)            | : HYDROCHLORIC ACID                     |
| Proper Shipping Name (IMDG)           | : HYDROCHLORIC ACID                     |
| Proper Shipping Name (IATA)           | : HYDROCHLORIC ACID                     |
| Proper Shipping Name (ADN)            | : HYDROCHLORIC ACID                     |
| Proper Shipping Name (RID)            | : HYDROCHLORIC ACID                     |
| Transport document description (ADR)  | : UN 1789 HYDROCHLORIC ACID, 8, II, (E) |
| Transport document description (IMDG) | : UN 1789 HYDROCHLORIC ACID, 8, II      |
| Transport document description (IATA) | : UN 1789 HYDROCHLORIC ACID, 8, II      |
| Transport document description (ADN)  | : UN 1789 HYDROCHLORIC ACID, 8, II      |
| Transport document description (RID)  | : UN 1789 HYDROCHLORIC ACID, 8, II      |

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### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 8

Danger labels (ADR) : 8



#### IMDG

Transport hazard class(es) (IMDG) : 8

Danger labels (IMDG) : 8



#### IATA

Transport hazard class(es) (IATA) : 8

Hazard labels (IATA) : 8



#### ADN

Transport hazard class(es) (ADN) : 8

Danger labels (ADN) : 8



#### RID

Transport hazard class(es) (RID) : 8

Danger labels (RID) : 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

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### 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)                                 | : C1          |
| Special provision (ADR)                                   | : 520         |
| Limited quantities (ADR)                                  | : 1L          |
| Excepted quantities (ADR)                                 | : E2          |
| Packing instructions (ADR)                                | : P001, IBC02 |
| Mixed packing provisions (ADR)                            | : MP15        |
| Portable tank and bulk container instructions (ADR)       | : T8          |
| Portable tank and bulk container special provisions (ADR) | : TP2         |
| Tank code (ADR)   | : L4BN        |
| Vehicle for tank carriage                                 | : AT          |
| Transport category (ADR)                                  | : 2           |
| Hazard identification number (Kemler No.)                 | : 80          |
| Orange plates   | :             |



|                               |      |
|-------------------------------|------|
| Tunnel restriction code (ADR) | : E  |
| EAC code                      | : 2R |

#### - 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   |
| EmS-No. (Fire)                  | : F-A   |
| EmS-No. (Spillage)              | : S-B   |
| Stowage category (IMDG)         | : C     |
| MFAG-No                         | : 157   |

#### - Air transport

|  |        |
|--|--------|
| PCA Excepted quantities (IATA)               | : E2   |
| PCA Limited quantities (IATA)                | : Y840 |
| PCA limited quantity max net quantity (IATA) | : 0.5L |
| PCA packing instructions (IATA)              | : 851  |
| PCA max net quantity (IATA)                  | : 1L   |
| CAO packing instructions (IATA)              | : 855  |
| CAO max net quantity (IATA)                  | : 30L  |
| Special provision (IATA)                     | : A3   |
| ERG code (IATA)                              | : 8L   |



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### - Inland waterway transport

|                                   |          |
|-----------------------------------|----------|
| Classification code (ADN)         | : C1     |
| Special provisions (ADN)          | : 520    |
| Limited quantities (ADN)          | : 1 L    |
| Excepted quantities (ADN)         | : E2     |
| Carriage permitted (ADN)          | : T      |
| Equipment required (ADN)          | : PP, EP |
| Number of blue cones/lights (ADN) | : 0      |

### - Rail transport

|   |               |
|---|---------------|
| Classification code (RID)                                 | : C1          |
| Special provision (RID)                                   | : 520         |
| Limited quantities (RID)                                  | : 1L          |
| Excepted quantities (RID)                                 | : E2          |
| Packing instructions (RID)                                | : P001, IBC02 |
| Mixed packing provisions (RID)                            | : MP15        |
| Portable tank and bulk container instructions (RID)       | : T8          |
| Portable tank and bulk container special provisions (RID) | : TP2         |
| Tank codes for RID tanks (RID)                            | : L4BN        |
| Transport category (RID)                                  | : 2           |
| Colis express (express parcels) (RID)                     | : CE6         |
| Hazard identification number (RID)                        | : 80          |

### 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

HYDROCHLORIC ACID EXTRA PURE is not on the REACH Candidate List

HYDROCHLORIC ACID EXTRA PURE is not on the REACH Annex XIV List

#### 15.1.2. National regulations

##### Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 238)

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

##### Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

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### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

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

|               |  |
|---------------|--|
| Skin Corr. 1B | Skin corrosion/irritation, Category 1B   |
| STOT SE 3     | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H314          | Causes severe skin burns and eye damage  |
| H335          | May cause respiratory irritation   |
| R34           | Causes burns   |
| R37           | Irritating to respiratory system   |
| C             | Corrosive  |
| 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*