



## SAFETY DATA SHEET

### Hydrochloric Acid 35 %

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

##### 1.1. Product identifier

Product name	Hydrochloric Acid 35 %
CAS number	7647-01-0
EU index number	017-002-00-2

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

Identified uses	No information available.
Application of the substance / the mixture	Chemicals for synthesis
Uses advised against	No information available.

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

Manufacturer	Jubail Chemical Industries Company (JANA) P.O.BOX - 11919 Jubail Industrial City - 31961 Saudi Arabia Tel. +966 13 3478888 ext 351 Fax. +966 13 3476705 safety@nama.com.sa
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Only Representative REACH 1907/2006/EC Article 8	NAMA Germany Teichstrasse 38 D-79539 Lörrach Tel. + 49 762 1940 5410 Fax. + 49 762 1940 5420
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##### 1.4. Emergency telephone number

Emergency telephone	JANA Tel. +966 509058826 Tel. +966 501580466
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#### SECTION 2: Hazards identification

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

###### Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335
Environmental hazards	Not Classified

##### 2.2. Label elements

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### Pictogram



### Signal word

Danger

### Hazard statements

H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.

### Precautionary statements

P260 Do not breathe vapour/ spray.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
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.  
P405 Store locked up.  
P501 Dispose of contents/ container in accordance with national regulations.

### Contains

hydrogen chloride

### 2.3. Other hazards

#### Results of PBT and vPvB assessment:

Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

hydrogen chloride	30-60%
CAS number: 7647-01-0	EC number: 231-595-7
<b>Classification</b>	
Met. Corr. 1 - H290	
Skin Corr. 1A - H314	
STOT SE 3 - H335	

The full text for all hazard statements is displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General information</b>	Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
<b>Inhalation</b>	IF INHALED: Place unconscious person on their side in the recovery position and ensure breathing can take place. Move affected person to fresh air at once. Get medical attention immediately.
<b>Ingestion</b>	IF SWALLOWED: Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Remove person to fresh air and keep comfortable for breathing. Do not induce vomiting. Get medical attention immediately.
<b>Skin contact</b>	IF ON SKIN: Wash skin thoroughly with soap and water or use an approved skin cleanser.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention.

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

<b>General information</b>	No information available.
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### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes for the doctor** No information available.

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

**Suitable extinguishing media** Water spray, dry powder or carbon dioxide. Alcohol-resistant foam.

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

**Specific hazards** Toxic gases or vapours. Hydrogen chloride (HCl).

#### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### **SECTION 6: Accidental release measures**

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

**Personal precautions** Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

**For non-emergency personnel** Keep unnecessary and unprotected personnel away from the spillage.

#### 6.2. Environmental precautions

**Environmental precautions** Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

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

**Methods for cleaning up** Absorb spillage to prevent material damage. Contain spillage with sand, earth or other suitable non-combustible material. Collect and dispose of spillage as indicated in Section 13. Provide adequate ventilation.

#### 6.4. Reference to other sections

**Reference to other sections** Follow precautions for safe handling described in this safety data sheet. For personal protection, see Section 8. For waste disposal, see Section 13.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

**Usage precautions** Provide adequate general and local exhaust ventilation. Prevent formation of aerosols.

**Information about fire - and explosion protection** No special treatment required.

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

**Requirements to be met by storerooms and receptacles** No special requirements.

**Storage precautions** Store in tightly-closed, original container in a dry and cool place.

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

**Specific end use(s)** No information available.

### **SECTION 8: Exposure Controls/personal protection**

#### 8.1. Control parameters

**MAK (Germany)/MAK (EU)** Long-term value: 200 mg/m<sup>3</sup>, 300 ppm

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### 8.2. Exposure controls

#### Protective equipment



#### Personal protection

Keep away from food and drink. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Avoid contact with eyes. Avoid contact with skin.

#### Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield.

#### Hand protection

Wear protective gloves. It is recommended that chemical-resistant, impervious gloves are worn. Wear protective gloves made of the following material: Nitrile rubber. Rubber (natural, latex). Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

#### Other skin and body protection

Wear protective clothing.

#### Hygiene measures

Keep away from food, drink and animal feeding stuffs. Wash hands thoroughly after handling. Avoid contact with skin, eyes and clothing. Use appropriate skin cream to prevent drying of skin. If ventilation is inadequate, suitable respiratory protection must be worn.

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Wear self-contained breathing apparatus.

### SECTION 9: Physical and Chemical Properties

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

Appearance	Fluid
Colour	According to product specification
Odour	Characteristic.
pH	<1
Melting point	Not determined.
Initial boiling point and range	107 °C (DIN 51751)
Flash point	Not applicable.
Vapour pressure	12 hPa @ 20 °C
Vapour density	1.12 g/cm <sup>3</sup> @20°C
Solubility(ies)	Miscible with water.
Auto-ignition temperature	Product is not self-igniting
Viscosity	Not determined.
Explosive properties	There are no chemical groups present in the product that are associated with explosive properties.
Organic solvents	0.0%
VOC (EC)	0,00%

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### 9.2. Other information

Other information                      No information available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity                              No information available.

#### 10.2. Chemical stability

Stability                                Stable at normal ambient temperatures and when used as recommended.

Thermal decomposition /  
conditions to be avoided            No decomposition if used according to specifications. To avoid thermal decomposition do not overheat.

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous  
reactions                                Under normal conditions of storage and use, no hazardous reactions will occur.

#### 10.4. Conditions to avoid

Conditions to avoid                    No information available.

#### 10.5. Incompatible materials

Materials to avoid                    The following materials may react strongly with the product: Aluminium. Amines. Inorganic hydrides. Alkali metals. Aldehydes. Carbides, metals potassium permanganate, strong alcahsics, saltes of halogeneoxygene acids, and sulfides

#### 10.6. Hazardous decomposition products

Hazardous decomposition  
products                                No known hazardous decomposition products.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

Notes (oral LD<sub>50</sub>)                      900 mg/kg, Oral, Rabbit

##### Skin corrosion/irritation

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

##### Serious eye damage/irritation

Serious eye damage/irritation    May cause serious eye damage.

##### Respiratory sensitisation

Respiratory sensitisation            Based on available data the classification criteria are not met.

##### Skin sensitisation

Skin sensitisation                      Based on available data the classification criteria are not met.

##### Germ cell mutagenicity

Genotoxicity - in vitro                Based on available data the classification criteria are not met.

##### Genotoxicity - in vivo

Based on available data the classification criteria are not met.

##### Carcinogenicity

Carcinogenicity                        Based on available data the classification criteria are not met.

##### Reproductive toxicity

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**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

**STOT - single exposure** May cause respiratory system irritation.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met.

### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

## SECTION 12: Ecological Information

### **General Notes**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Avoid the spillage or runoff entering drains, sewers or watercourses. Avoid discharge into drains and the aquatic environment. Do not discharge into drains or watercourses or onto the ground.

### 12.1. Toxicity

**Toxicity** No information available.

**Chronic toxicity - aquatic invertebrates** No information available.

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No information available.

### 12.4. Mobility in soil

**Mobility** No information available.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** Not applicable.

### 12.6. Other adverse effects

**Other adverse effects** No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods** Dispose of waste product or used containers in accordance with local regulations Dispose of waste via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

**European waste catalogue:** 06 01 02\* hydrochloric acid

## SECTION 14: Transport information

### 14.1. UN number

UN1789

**UN No. (ADR/RID)** UN1789

**UN No. (IMDG)** UN1789

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UN No. (ICAO) UN1789

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID) UN 1789 HYDROCHLORIC ACID solution

Proper shipping name (IMDG) HYDROCHLORIC ACID solution

Proper shipping name (ICAO) Hydrochloric acid solution

### 14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C1

ADR/RID label 8

IMDG class 8

ICAO class/division 8

### Transport labels



### 14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ICAO packing group II

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

Warning This product is corrosive.

Danger code(Kemler): 80

EmS F-A, S-B

ADR transport category 2

Emergency Action Code 2R

Hazard Identification Number (ADR/RID) 80

Tunnel restriction code (E)

Segregation Code: SG35 Stow "separated from" acids.

IMDG-Storage Category E

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

Annex II of MARPOL 73/78 and the IBC Code

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### ADR and IMDG:

<b>Excepted quantities (EQ):</b>	Code: E2
<b>Limited quantities (LQ)</b>	1L
<b>Maximum net quantity per inner packaging:</b>	30 ml
<b>Maximum net quantity per outer packaging:</b>	500 ml
<b>Transport Category:</b>	2
<b>Tunnel Restriction Code:</b>	E
<b>UN "Model Regulation":</b>	UN 1789 HYDROCHLORIC ACID SOLUTION, 8, II

### SECTION 15: Regulatory information

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

#### 15.2. Chemical safety assessment

### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association"(IATA).</p> <p>ICAO: International Civil Aviation Organisation</p> <p>ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>IATA: International Air Transport Association.</p> <p>GHS: Globally Harmonized System.</p> <p>EINECS: European Inventory of Existing Commercial and Chemical Substances</p> <p>CAS: Chemical Abstracts Service.</p> <p>VOC: Volatile Organic Compounds (USA,EU)</p> <p>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</p> <p>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p> <p>Met. Corr.1: Corrosive to metals, Hazard Category 1</p> <p>Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B</p> <p>Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1</p> <p>STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3</p> <p>Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.</p>
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**Revision date** 28/06/2018

**Revision** 00

**SDS number** 4590

**Hazard statements in full**

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.



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### **Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.