

Revision:24 Oct 2014

## SAFETY DATA SHEET

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

#### 1.1 Product identifier

- Product Name: **ASTRAL D CON ACID**

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

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

- Name of Supplier: **ASTRAL CSL**
- Address of Supplier: **PILKINGTON INDUSTRIAL ESTATE  
RAKE LANE  
SWINTON  
M27 8LP**
- Telephone: **0161 643 0260**
- Fax: **0870 199 2072**
- Email: [SALES@ASTRAL.COM](mailto:SALES@ASTRAL.COM)

#### 1.4 Emergency telephone number: 0161643 0260

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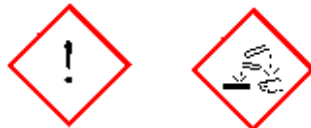
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### SECTION 2 Hazards identification

#### 2.1 Classification of the substance or mixture

- STOT SE 3
- Met. Corr. 1
- Skin Irrit. 2
- Eye Irrit. 2

#### 2.2 Label elements



- Signal Word: **Danger**
- Symbols: **Xi**
- Hazard phrases
  - H335 - May cause respiratory irritation.
  - H290 - May be corrosive to metals.
  - H315 - Causes skin irritation.
  - H319 - Causes serious eye irritation.
- Precautionary Phrases
  - P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
  - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
  - P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P309+P311 - IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
- Risk Phrases
  - R36/37/38 - Irritating to eyes, respiratory system and skin

## SECTION 2 Hazards identification (...)

### Safety Phrases

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

### 2.3 Other hazards

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## SECTION 3 Composition/information on ingredients

### 3.1 Mixtures

- hydrochloric acid ... %  
Concentration: 21%  
CAS Number:  
EC Number: 231-595-7  
R/H Phrases: H314, H335, R34, R37  
Symbols: GHS05, GHS07, C
  - Alcohol ethoxylate  
Concentration: 1%  
CAS Number: 68439-46-3  
EC Number:  
R/H Phrases: R22, R41  
Symbols: Xn, Xi
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## SECTION 4 First aid measures

### 4.1 Description of first aid measures

- P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- If breathing is difficult, oxygen should be given by a trained person
- P303+P361+P353 - IF ON SKIN (or hair): Remove/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.
- P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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

- May cause respiratory irritation.
- Irritating to skin and eyes

### 4.3 Indication of any immediate medical attention and special treatment needed

**SPEED IS ESSENTIAL. OBTAIN IMMEDIATE MEDICAL ATTENTION.**

Eyes must be rinsed with water for several minutes.

If on skin remove contaminated clothing and rinse with plenty of water.

Mist or vapour will cause irritation the upper respiratory tract.

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## SECTION 5 Fire-fighting measures

### 5.1 Extinguishing media

- Appropriate for surround fire.
- Use water vapour to cool containers.

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

- Can react with most common metals to produce hydrogen.

### 5.3 Advice for firefighters

- Wear chemical protection suit and self-contained breathing apparatus
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## SECTION 6 Accidental release measures

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

- Ensure adequate ventilation of the working area.
- Evacuate personnel to a safe area.
- Wear suitable protective equipment.

### 6.2 Environmental Precautions

- Do not allow product to enter drains.
- Prevent further spillage if safe.

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

- Absorb with inert, absorbent material.
- Transfer to suitable, labelled containers for disposal.
- Clean spillage area thoroughly with plenty of water.

### 6.4 Reference to other sections

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## SECTION 7 Handling and storage

### 7.1 Precautions for safe handling

- Avoid contact with eyes and skin.
- Ensure adequate ventilation of the working area.

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

- Keep in a cool, dry, well ventilated area.
- Keep containers tightly closed.

### 7.3 Specific end use(s)

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## SECTION 8 Exposure controls/personal protection

### 8.1 Control parameters

- Engineering measures: Ensure adequate ventilation of the working area.
- Respiratory protection: Suitable respiratory equipment.
- Hand protection: Chemical resistant gloves (PVC) Butyl rubber gloves. Nitrile rubber gloves. Polychloroprene - CR (I) Polyvinyl chloride - PVC (I)
- Eye protection: Approved safety goggles.
- Protective equipment: Wear chemical protective clothing.
- Hydrogen chlorine - WEL 8-hr limit ppm: 1 - WEL 8-hr limit mg/m<sup>3</sup>: 2
- Hydrogen chlorine - WEL 15-min limit ppm: 5 - WEL 15-min limit mg/m<sup>3</sup>: 8

### 8.2 Exposure controls

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## SECTION 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance: Clear colourless liquid
- Odour: Characteristic.
- Boiling point: 110°C
- Relative density: 1.105
- Freezing point: -57°C
- Water solubility: Soluble.

### 9.2 Other information

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## SECTION 10 Stability and reactivity

### 10.1 Reactivity

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**SECTION 10 Stability and reactivity (...)**

- Reacts with strong oxidising agents.
- 10.2 Chemical stability
- Stable under normal conditions.
- 10.3 Possibility of hazardous reactions
- Contact with metals liberates hydrogen gas.
  - Can react violently with oxidising agents liberating chlorine.
  - Exothermic reaction with alkalis.
- 10.4 Conditions to avoid
- Avoid contact with metals
  - S24/25 - Avoid contact with skin and eyes
  - Avoid contact with alkalis (strong bases)
- 10.5 Incompatible materials
- Metals and alkalis.
- 10.6 Hazardous Decomposition Products
- Chlorine.
  - Hydrogen.
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**SECTION 11 Toxicological information**

- 11.1 Information on toxicological effects
- Acute toxicity: Ingestion causes burns to the respiratory tract.
  - Corrosivity: Irritating to eyes and skin.
  - Sensitization: The substance has not been tested at all for this end point, so its hazardous property in this regard is not known.
  - Repeated or prolonged exposure: Avoid prolonged or repeated exposure.
  - Reproductive toxicity: The substance has not been tested at all for this end point, so its hazardous property in this regard is not known.
  - Carcinogenicity  
The substance has not been tested at all for this end point, so its hazardous property in this regard is not known.
  - Mutagenicity  
The substance has not been tested at all for this end point, so its hazardous property in this regard is not known.
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**SECTION 12 Ecological information**

- 12.1 Toxicity
- May cause acute effects in the aquatic environment
  - Acute fish toxicity: LC50 = 20.5 mg/l 96H.
  - EC50 (Daphnia magna) 0.45 mg/l (48 hr)
- 12.2 Persistence and degradability
- Will disperse as ions.
- 12.3 Bioaccumulation Potential
- Does not bioaccumulate.
- 12.4 Mobility in soil
- Degradability:
  - Soluble in water.
- 12.5 Results of PBT and vPvB assessment
- Not a PBT according to REACH Annex XIII
- 12.6 Other Adverse Effects

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**SECTION 12 Ecological information (...)**

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**SECTION 13 Disposal considerations**

## 13.1 Waste treatment methods

- General information: Dispose of in compliance with all local and national regulations.
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**SECTION 14 Transport information**

## 14.1 UN Number

- 1789

## 14.2 UN Proper Shipping Name

- Hydrochloric Acid

## 14.3 Transport hazard class(es)

- 8

## 14.4 Packing group

- III

## 14.5 Environmental hazards

## 14.6 Special precautions for user

- Further information:
- IATA Packing Instructions (CARGO): 813 - Maximum Quantity: 30 L
- IATA Packing Instructions (PASSENGER): 809 - Maximum Quantity: 1 L

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

## 14.8 Emergency Action Code

- Proper Shipping Name: Hydrochloric acid
- EAC:

## 14.9 Sea (IMDG)

- Proper Shipping Name: Hydrochloric acid
- IMDG UN No.: 1789
- IMDG Hazard Class: 8
- IMDG Pack Group.: III
- IMDG MFAG:

## 14.10 Air (ICAO/IATA)

- Proper Shipping Name: HYDROCHLORIC ACID
  - ICAO Un No.: 1789
  - ICAO Hazard Class: 8
  - ICAO Packing Group: III
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**SECTION 15 Regulatory information**

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

## 15.2 Chemical Safety Assessment

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**SECTION 16 Other information**

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H314: Causes severe skin burns and eye damage. H335: May cause respiratory irritation. R22: Harmful if swallowed. R34: Causes burns. R37: Irritating to respiratory system. R41: Risk of serious damage to eyes.

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. The information is correct to the best of our knowledge and

## SECTION 16 Other information (...)

belief at the date of publication, however no guarantee is made to its accuracy. 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 other process.

Revision: This document differs from the previous version in the following areas: 4 - eye contact., 4 - inhalation., 4 - ingestion., 8 - respiratory protection., 8 - hand protection., 10 - materials to avoid., 11 - acute toxicity.