

**SECTION 1: Identification of the Substance / Mixture and of the Company / Undertaking****1.1. Product Identifier**

Product form : Mixture  
Trade name : Hydro Chloric Acid 30/33%  
EC Index-No. : 017-002-00-2  
EC-No. : 231-595-7  
CAS-No. : 7647-01-0  
REACH registration No : 01-2119484862-27-XXXX

**1.2. Details of the Distributor of the Safety Data Sheet**

**Company Name** : GreenSol Limited  
**Address** : #39-41 Marryat Street, San Fernando, Trinidad, West Indies  
**Telephone** : +1(868) 225-4858  
**Mobile** : +1(868) 720-2517  
**Email** : [sdeokiesingh@greensolltd.com](mailto:sdeokiesingh@greensolltd.com)

**1.4. Emergency Telephone Number**

Emergency Number : +1(868) 720-2517 (GREENSOL)  
: +1(800) 424-9300 (CHEMTREC)

**SECTION 2: Hazard Identification****2.1. Classification of the Substance or Mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Corrosive to metals, Category 1 : H290  
Skin corrosion/irritation, Category 1A : H314  
Specific target organ toxicity- Single exposure, Category 3, Respiratory tract irritation : H335  
Full text of H statements: see section 16

**Adverse physicochemical, human health and environmental effects**

Toxic if inhaled. Causes severe skin burns and eye damage.

**2.2. Label Elements**

Hazard Pictogram :



	GHS07	GHS05
Signal Word	: <b>DANGER</b>	
Hazard Statement	: H290 - May be corrosive to metals H314- Causes severe skin burns and eye damage H335 - May cause respiratory irritation	
Precautionary Statement	: P260 - Do not breathe dust, fume, gas, mist, spray, vapours P280 - Wear eye protection, face protection P303+P361+P353- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower	

### 2.3. Other Hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  
 This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## SECTION 3: Composition / Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

Not applicable

Mixture	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
hydrogen chloride (CAS No) 7647-01-0 (Note UXNo!e 5)	(CAS No) 7647-01-0 (Note UXNo!e 5) (EC no) 231-595-7 (EC index no) 017-002-0~2 (REACH-no) 01 -2119484862-27-XXXX	<=100	Met. Corr. 1, H290 Skin Corr. 1A. H314 STOT SE 3. H335

## SECTION 4: First Aid Measures

### 4.1. Description of First Aid Measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a doctor.



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

#### **4.2. Most Important Symptoms and Effects, Both Acute and Delayed**

- Symptoms/effects after skin contact : Burns
- Symptoms/effects after eye contact : Serious damage to eyes
- Symptoms/effects after ingestion : Burns

#### **4.3. Most Important Symptoms and Effects, Both Acute and Delayed**

Treat symptomatically.

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

#### **5.1. Extinguishing media**

- Suitable Extinguishing Media : Water spray. Dry powder. Foam. Carbon dioxide

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

- Hazardous decomposition products : Toxic fumes may be released in case of fire

#### **5.3. Advice for Firefighters**

- Protection during firefighting : Do not attempt to take action without suitable protective equipment Self-contained breathing apparatus. Complete protective clothing.

### **SECTION 6: Accidental Release Measures**

#### **6.1. Environmental Precautions**

Avoid release to the environment.

#### **6.2. Methods and Material for Containment and Cleaning up**

- Methods for Cleaning Up : Take up liquid spill into absorbent material

Other Information : Dispose of materials or solid residues at an authorized site

### 6.3. Reference to Other Sections

For further information refer to section 13.

## SECTION 7: Handling & Storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product  
Always wash hands after handling the product.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

### 7.3. Specific End Use(s)

No additional information available

## SECTION 8: Exposure Controls / Personal Protection

### 8.1. Control Parameters

#### Hydro Chloric Acid 30/33% (7647-01-0)

##### DNEUDMEL (Workers)

Acute - local effects, inhalation 15mg/m<sup>3</sup>

Long-Term-- systemic effects, inhalation 8 mg/m<sup>3</sup>

##### PNEC (Water)

PNEC aqua (freshwater) 36mg/l

PNEC aqua (marine water) 36mg/l

PNEC aqua (intermittent, freshwater) 45mg/l

##### PNEC (STP)

PNEC sewage treatment plant 36mg/l

## 8.2. Exposure Controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
 Hand protection : Protective gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves, Disposable gloves	Natural Rubber	6 (> 480 minutes)	0.5		
Reusable gloves, Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.35		
Reusable gloves, Disposable gloves	Butyl rubber	6 (> 480 minutes)	0.5		

Eye protection : Safety glasses

Type	Use	Characteristics	Standard
Face shield, Safety goggles			
Skin and body protection	: Wear suitable protective clothing		
Respiratory protection	: Wear respiratory protection		

Device	Use	Characteristics	Standard
Gas filters	Type P1, Type P2		

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

Physical State : Liquid  
 Appearance : Colourless, Syrupy Liquid  
 Molecular Mass : 62.07 g/mol  
 Colour : Light yellow  
 Odour : Pungent  
 Odour Threshold : No Data Available  
 pH : No Data Available

Relative Evaporation Rate (butyl acetate=1)	: No Data Available
Melting Point	: Not applicable
Freezing Point	: No Data Available
Boiling Point	: 88 ·c
Flash Point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour Pressure	: 190 hPa
Relative vapour density at 20 °C	: No data available
Relative Density	: No Data Available
Density	: 1,19 g/m3
Solubility	: Soluble 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	: No data available

## 9.2. Other Information

No additional information available.

## SECTION 10: Stability and Reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical Stability	: Stable under normal conditions.
Possibility of Hazardous Reactions	: No dangerous reactions known under normal conditions of use.
Conditions to Avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible Materials	: No additional information available.
Hazardous Decomposition Products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced

## 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	: Not classified

Respiratory or skin sensitisation : Not classified  
 Germ cell mutagenicity : Not classified  
 Carcinogenicity : Not classified  
 Aspiration hazard : Not classified  
 Specific target organ toxicity : Not classified  
 (repeated exposure)

## SECTION 12: Ecological Information

### 12.1. Toxicity

Ecology – general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.  
 Acute aquatic toxicity : Not classified  
 Chronic aquatic toxicity : Not classified

### 12.2. Persistence and Degradability

No additional information available

### 12.3. Bio accumulative potential

No additional information available

### 12.4. Mobility in Soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

Component	
-Hydrogen Chloride (7647-01-0)	This substance/mixture does not meet the PBT criteria of REACH regulation., annex XII This substance does not meet the vPvB of REACH regulation, annex XII

### 12.6. Other Adverse Effects

Additional Information : Avoid release to the environment

## SECTION 13: Disposal Considerations

### 13.1. Waste Treatment Methods

Waste Treatment Methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transportation Information

### 14.1. UN Number

1789	1789	1789	1789	1789
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### 14.2. UN Proper Shipping Name

HYDROCHLORIC ACID	HYDROCHLORIC ACID	HYDRICHLORIC ACID	HYDROCHLORIC ACID	HYDROCHLORIC ACID
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### Transport document description

UN 1789 HYDROCHLORIC ACID, 8,   , (E)	UN 1789 HYDROCHLORIC ACID, 8,   , (E)	UN 1789 HYDROCHLORIC ACID, 8,   , (E)	UN 1789 HYDROCHLORIC ACID, 8,   , (E)	UN 1789 HYDROCHLORIC ACID, 8,   , (E)
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### 14.3. Transport Hazard Class (es)

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### 14.4. Packing Group

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### 14.5. Environment Hazards

Dangerous for the environment: No	Dangerous for the environment: No Marine Pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
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### 14.6. Special Precautions for User

#### Overland Transport

Classification code (ADR)	: C1
Special provisions (ADR)	: 520
Limited quantities (ADR)	: 1
Portable tank and bulk container instructions (ADR)	: T8
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  
Expected 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  
Properties and observation (IMDG) : Colourless liquid. An aqueous solution of the gas hydrogen chloride. Highly corrosive to most metals. Causes burns to skin, eyes and mucous membranes.

### 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 provisions (IATA) : A3  
ERG code (IATA) : 8L

### Inland waterway transport

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

### Rail transport

Classification code (ADR) : C1  
Special provisions (ADR) : 520  
Limited quantities (ADR) : 1L  
Expected quantities (RID) : E2  
Packing instructions (RID) : P001, IBC02



Mixed packing provisions (RID) : MP15  
Portable tank and bulk container : T8  
instructions (ADR)

**14.7. Transport in Bulk According to Annex II of Marpol 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**

Contains no REACH substances with Annex XVII restrictions  
Contains no substance on the REACH candidate list  
Contains no REACH Annex XIV substances

**15.1.2. National Regulations**

No additional information available

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out

**SECTION 16: Other Information**

**Abbreviations and acronyms:**

AND	: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	: Acute Toxicity Estimate
BCF	: Bioconcentration factor
DMEL	: Derived Minimal Effect level
CLP	: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	: Derived-No Effect Level
DPD	: Dangerous Preparations Directive 1999/45/EC
DSD	: Dangerous Substances Directive 67/548/EEC
EC50	: Median effective concentration
IARC	: International Agency for Research on Cancer
IATA	: International Air Transport Association
IMDG	: International Maritime Dangerous Goods
LC50	: Median lethal concentration
LD50	: Median lethal dose
LOAEL	: Lowest Observed Adverse Effect Level
NOAEC	: No-Observed Adverse Effect Concentration



NOAEL	: No-Observed Adverse Effect Level
NOEC	: No-Observed Effect Concentration
OECD	: Organisation for Economic Co-operation and Development
PBT	: Persistent Bioaccumulative Toxic
PNEC	: Predicted No-Effect Concentration
REACH	: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	: Regulations concerning the International Carriage of Dangerous Goods by Rai
SDS	: Safety Data Sheet
STP	: Sewage treatment plant
TLM	: Median Tolerance Limit
vPvB	: Very Persistent and Very Bioaccumulative

**Notice to Reader:**

This SDS provides the information contained in this document in good faith but makes no representation as to its accuracy. This document is intended solely to guide the safe handling of the material by a properly trained individual. The final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be handled with caution. Although some hazards are described, it cannot be guaranteed that these are the only hazards that exist.

<b>Version</b>	<b>Date of Change</b>	<b>Change Description</b>	<b>Responsible Person</b>
2.1	22-05-2024	Preliminary statements (CLP); H+P phrases	Laboratory Coordinator