

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

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	: DANGER	
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	(CAS No) 7647-01-0 (Note UXNo!e 5) (EC no) 231-595-7	<=100	Met. Corr. 1, H290
(Note UXNo!e 5)	(EC index no) 017-002-0~2 (REACH-no) 01211948486227- Qqqqqq XXXX		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 in case of fire : Toxic fumes may be released

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/m³

Long-Term-- systemic effects, inhalation 8 mg/m³

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/m ³
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

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14.2. UN Proper Shipping Name

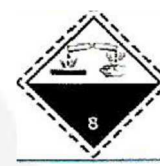
HYDROCHLORIC ACID	HYDROCHLORIC ACID	HYDRICHLORIC ACID	HYDROCHLORIC ACID	HYDROCHLORIC ACID
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Transport document description

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.

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