SECTION 1: Identification of the Substance / Mixture and of the Company / Undertaking

1.1. Product Identifier

Product name	:	2% Potassium Chloride (KCl) Solution
CAS-No.	:	7447-40-7 / 7732-18-5

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Use of the substance/mixture	:	Brine solution for oilfield applications

1.3. 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 (24-hour, GREENSOL)
	:	+1(800) 424-9300 (CHEMTREC, USA)

SECTION 2: Hazard Identification

GHS Classification	:	Not classified as hazardous under GHS
Signal Word	:	None
Hazard Pictograms	:	Not required
Hazard Statement	:	Not applicable
Precautionary Statement	:	Handle in accordance with good industrial hygiene and safety practice.
Other Hazards	:	Not PBT/vPvB; may cause transient eye/skin irritation in susceptible individuals on prolonged contact.

SECTION 3: Composition / Information on Ingredients

Name	CAS No.	Percentage %
Potassium Chloride (KCl)	7447-40-7	2% w/w
Water	7732-18-5	Balance (98%)

SECTION 4: First Aid Measures

Inhalation	:	Move to fresh air if inhaled. Seek medical attention if symptoms persist.
Skin contact	:	Wash with plenty of water. Seek medical attention if irritation develops.

Eye contact	:	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present.
Ingestion	:	Rinse mouth. Do not induce vomiting. Seek medical advice if large quantities are ingested or symptoms occur.
Physician note	:	Treat symptomatically.

SECTION 5: Firefighting measures

Suitable Extinguishing Media	:	Use water spray, foam, dry chemical, or CO_2.
Specific Hazards	:	Non-flammable aqueous solution.
Protective Equipment	:	Firefighters should wear standard protective equipment.

SECTION 6: Accidental Release Measures

Personal Precautions	:	Avoid contact with eyes and skin. Use personal protective equipment.
Environmental Precautions	:	Prevent large quantities from entering drains or waterways.
Spill Response / Cleanup Methods	:	Stop leak if safe. Contain and absorb with inert material (sand/diatomaceous earth). Collect into suitable container for disposal. Prevent large releases to drains/waterways. Clean spill area with water.

SECTION 7: Handling & Storage

Handling	:	Handle in accordance with good industrial hygiene and safety practices.
Storage	:	Store in original, tightly closed container in a cool, dry, well-ventilated area. **Recommended storage 5–35 °C**. Avoid contamination with strong acids/oxidizers and **silver salts** (precipitation). Protect from extreme heat or freezing.

SECTION 8: Exposure Controls / Personal Protection

Engineering controls	:	No occupational exposure limits are established for KCl/water in many jurisdictions. Ensure adequate ventilation.
Personal Protection	:	Use protective gloves and safety glasses.
Hygiene Measures	:	Wash hands after handling.

SECTION 9: Physical and Chemical Properties

Appearance	:	Clear, colorless liquid
Odour	:	Odourless
pH	:	~7.0 at 25°C
Specific Gravity	:	~1.015 g/cm³ at 25°C
Density	:	~1.015 g/mL at 25°C
Boiling Point	:	~100°C

Freezing Point	:	~0°C
Viscosity	:	Similar to water
Solubility	:	Completely soluble in water
Vapour Pressure	:	Similar to water
Vapour Density (air=1)	:	Similar to water
Evaporation rate	:	Similar to water
Flash point / Flammability	:	Not applicable (aqueous, non-flammable)
Auto-ignition Temperature	:	Not applicable
Explosive Limits	:	Not applicable
Partition coefficient (n-octanol/water)	:	Not applicable (inorganic salt, fully miscible)
Decomposition Temperature	:	Not expected under normal conditions
VOC	:	0%

SECTION 10: Stability and Reactivity

Stable under normal conditions.	:	Stable under normal conditions.
Incompatible Materials	:	Strong acids, silver salts, and other halides.
Hazardous Decomposition Products	:	None known under normal use
Reactivity	:	No dangerous reactions known under normal conditions.
Chemical Stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	None known.
Conditions to avoid	:	Extreme temperatures; evaporation to dryness.
Incompatible materials	:	Strong acids/oxidizers; silver salts and other halides (precipitation).
Hazardous decomposition products	:	None under normal use.

SECTION 11: Toxicological Information

Acute Toxicity	:	Low toxicity expected at 2% concentration.
Skin/Eye Contact	:	May cause mild irritation on prolonged exposure.
Inhalation/Ingestion	:	Not expected to be hazardous.
Carcinogenicity / Mutagenicity / Reproductive Toxicity	:	Not expected; not listed by IARC, NTP, or OSHA.
Sensitization	:	Not expected to occur at 2 % solution.

SECTION 12: Ecological Information

Toxicity	:	Low acute aquatic toxicity expected at this dilution.
Persistence/Degradability	:	Inorganic; not biodegradable; ions dissociate in water
Bioaccumulation	:	Not expected.
Mobility in Soil	:	High water solubility; may leach to groundwater.
PBT/vPvB	:	Not applicable.

SECTION 13: Disposal Considerations

Non-hazardous aqueous salt solution; dispose/recycle in accordance with local regulations. Rinse containers before recycling where allowed.

SECTION 14: Transportation Information

UN Number	:	Not regulated
Proper Shipping Name	:	Not applicable
Hazard Class	:	Not applicable
ADR/RID	:	Not dangerous goods
IMDG	:	Not dangerous goods
IATA	:	Not dangerous goods

SECTION 15: Regulatory Information

All components are listed or exempt on TSCA. For EU/UK, not subject to REACH Annex XIV; no SVHCs present. This product is not classified as hazardous under GHS.

SECTION 16: Other Information

NFPA:

HMIS III:

HEALTH	**0**
FLAMMABILITY	**0**
PHYSICAL HAZARD	**0**
PERSONAL PROTECTION	**B**

0 = Not significant, 1 = Slight
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Date of Issue	:	31st October, 2025
Revision	:	0
Abbreviations	:	GHS: Globally Harmonized System PBT: Persistent, Bioaccumulative, Toxic vPvB: very Persistent and very Bioaccumulative PPE: Personal Protective Equipment TSCA: Toxic Substances Control Act REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

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
1	31-10-2025	Initial issue of SDS	Laboratory Coordinator