

Product Name: Greenex™ Rust and Scale Remover F1**Section 1 - Identification of Chemical Product and Company**

Manufactured By : Eco Green Solutions Co.,Ltd
 1/292 M.9 Bangpood Pakkret Nonthaburi 11120 Thailand
DISTRIBUTOR BY: CHS-ASIA CHEMICAL CO.,LTD.
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Trade Name : Greenex™ Rust and Scale Remover F1
Product Use : For general cleaning and of line cleaning of the chiller
This version issued : December, 2013 and valid for 2 years from this date

**MATERIAL SAFETY DATA SHEET****Section 2 – Hazards Identification**

Product is categorized as NONHAZARDOUS. It is non-flammable, non-explosive, and non-reactive

Ingestion : The product is harmful if swallowed. Avoid ingestion.
Eye Contact : The product may cause eye irritation. Avoid contact with eye.
Skin Contact : Prolonged or repeated exposure may cause drying and irritation.
Inhalation : No adverse effects under normal use conditions.
Carcinogens : Product contains no ingredients listed by OSHA, IARC, or NTP as known or suspected carcinogens.

Section 3 – Composition/Information on

Alkyl Polyglycoside (proprietary botanically-based compound) CAS No. 68513-73-1
 Sodium Gluconate CAS No. 527-07-1
 Organic chelating agents, scale inhibiting ingredients (Threshold inhibitors)
 This product is water- based, non- volatile, non-flammable, non CFC, non-phosphates, non heavy metal and readily biodegradable (based on similarly structured product)

Section 4 – First Aids Measures

General Information: Use of rubber and eye protection following good manufacturing practices.
Inhalation: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.
Skin Contact: Irritation is unlikely. However, the prolonged or repeated exposure may cause drying and irritation.
Eye Contact: Quickly and gently blot or brush product away. Flush the contaminated eye(s) with lukewarm gently flowing water until the product is removed or until irritation has ceased, while holding the eyelid(s) open. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.
Ingestion : If product is swallowed or gets in mouth, wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact Poisons Information Center or a doctor

Section 5 – Fire Fighting Measures

Extinguishing Media : Not Combustible. This product is water based and non flammable
Flash Point : Does not burn. **Flammable Limit:** non-flammable.
Specific Hazards : none **Specific Methods:** Standard fire fighting procedures
Auto Ignition Temperature : Not applicable-does not burn

Section 6 – Accidental Release Measures

Steps to be taken in the event material is spilled or released:
 Wash with water and dispose in to sewer. Adjustment of pH level may be required before disposal.
Personal Precautions : Use of rubber gloves and eye protection is recommended.
Environmental Precautions : No special requirement.

Section 7 – Handling and Storage

Storage Temperature: Room temperature or cooler (20°C-30°C) to avoid separation.
Average Shelf Life : Two years in original container at room temperature.
 Six months when diluted.
Special Sensitivity : Avoid prolonged exposure to excessive heat and direct sunlight.
Special Precautions : Store in original container away from excessive heat and direct sunlight and out of reach of children and pets.

Product Name: Greenex™ Rust and Scale Remover F1**Section 8 – Exposure Controls and Personal**

Ventilation: No special ventilation requirements are normally necessary for the product. However make sure that the work environment remain clean and that vapors and mists are minimized.

Eye Protection: Eye protection such as protective glasses or goggles is recommended when this product is being used.

Skin Protection: This information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves when skin contact is likely

Protective Material Types: We suggest that protective clothing be made from the following materials.

Respirator: Usually ,no respirator is necessary when using this product.

Section 9 – Physical and Chemical Properties

Physical Description: liquid

Color: light brown

Odor: Characteristic

Specific Gravity: 1.060-1.112 approx

Auto ignition Temp: water based

Oil Emulsion Properties: N

Volatile Organics Content(s) gm/gm (EPA method 24-24A, 40 C.F.R., part 60 Appendix A) : No data.

Water Solubility: Completely soluble in water

Boiling Point: Approximately <95 °C at 100kPa

Freezing Melting Point: Approximately <5°C

Vapor Pressure: No data

Foaming Characteristic: Moderate

Total Immersion Corrosion: None

Viscosity : <20 cp

pH: (5%sol@25°C) : 2.80-3.50

Evaporation Rate: 0.01%

Conductivity (µS/cm) : N/E

Total Phosphate in P₂ O₅ : None

Section 10 – Stability and Reactivity

Reactivity: This product is stable.

Polymerization: This product will not undergo polymerization reactions. **Conditions to Avoid** : None Know.

Incompatibility: No particular Incompatibilities.

Decomposition Products : None known

Section 11 – Toxicological Information

Acute Toxicity : None

Local Effects : None

Specific Effects : None

Section 12 – Ecological Information

This product is not known to cause adverse ecological effect. It is readily biodegradable

Section 13 – Disposal Consideration

Disposal: Containers should be emptied as completely as practical before disposal. If possible, recycle containers either in-house or send to recycle company. If this is not practical, send to a commercial waste disposal site. This product should be suitable for landfill. However, check with local Waste Disposal Authority before sending there. Note that product properties may have been changed in use, significantly altering it's suitability for landfill. Please do not dispose into sewers or waterway.

Section 14 – Transport Information

This product is non hazardous for air, sea and road freight.

Contains no regulated ingredients which required special precautions for transportation

Section 15 – Regulatory Information

No special regulatory condition required. Product complies to all known regulatory considerations.

Section 16 – Other Information

Greenex™ Rust and Scale Remover F 1 Products do not contain lead (Pb). Mercury (Hg), Cadmium(Cd), Hexavalent Chromium (Cr6), comply with the limits as set by ROHS Directive 2011/65/EU

Annex I I; recasting 2002/95/EC

For further information please contact DISTRIBUTOR BY: CHS-ASIA CHEMICAL CO.,LTD.

Please refer to section 1 for contact information