

Simple Green® Lime Scale Remover

SAFETY DATA SHEET in accordance with REGULATION (EC) No 1907/2006 & (EU) No 2015/282

1 IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Product Identifier: Simple Green® Lime Scale Remover

Manufacturer Numbers: Please see Section 16

Relevant identified uses of mixture: Cleaning and scale removing agent for all rinsable surfaces.

Relevant identified uses advised against: Surfaces not tolerate to acidic solutions and non-rinsable surfaces.

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2 HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008 [CLP] : Skin Corrosion 1C

Label Elements

Signal Word: DANGER

Hazard Statements: H314: Causes severe skin burns and eye damage.

Precautionary Statements: P260: Do not breathe fume/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves and eye protection.

P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363: Wash contaminated clothing before reuse.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310: Immediately call a poison center or doctor.

P321: Specific treatment (see precautions on this label).

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405: Store locked up.

Supplemental Hazard Information: Not applicable

Other Hazards: None known.

Hazard Pictograms:



3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>CAS No.</u>	<u>EC No.</u>	<u>CLP Annex VI Index No.</u>	<u>REACH No.</u>	<u>% weight</u>	<u>Name</u>	<u>Classification According to (EC) No 1272/2008 (CLP)</u>
506-89-8	208-059-6	-	Pre-registered	1 – 6%	Urea Hydrochloride	Acute Tox. 4 – H302 Skin Corr 1B – H314
68-04-2	200-75-3	-	01-2119457027-40	1 - 5%	Sodium Citrate	Not classified
68439-46-3	614-482-0	-	exempt	1 - 5%	C9-11 Ethoxylated Alcohol	Eye Dam. 1 - H318
7681-11-0	231-659-4	-	01-2119906339-35	0.1 -1%	Potassium Iodide	Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319

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SAFETY DATA SHEET in accordance with REGULATION (EC) No 1907/2006 & (EU) No 2015/282

3 COMPOSITION/INFORMATION ON INGREDIENTS - continued

<u>CAS No.</u>	<u>EC No.</u>	<u>CLP Annex VI Index No.</u>	<u>REACH No.</u>	<u>% weight</u>	<u>Name</u>	<u>Classification According to (EC) No 1272/2008 (CLP)</u>
Proprietary	-	-	Pre-registered	0.1 – 1%	Fragrance	Not classified
Proprietary	-	-	Pre-registered	0.001 – 0.01%	Colorant	Not classified

4 FIRST AID MEASURES

General Notes: None.

Following Inhalation: Do not breathe fume/mist/vapours/spray. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor.

Following Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor.

Following Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

Following Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor.

Self-protection of the first aider: Treat Symptomatically.

Acute effects: None known or expected.

Delayed effects: None known or expected.

Immediate medical attention / special treatment: None needed.

5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use dry chemical, CO2, water spray or "alcohol" foam.

Unsuitable Extinguishing Media: High volume water Jet.

Hazardous combustion products: No hazards or reactions expected.

Advice for firefighters: No special equipment needed for this product. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6 ACCIDENTAL RELEASE MEASURES

Non-Emergency Personal

Protective Equipment: Wear eye protection and gloves.

Emergency Procedures: For small and large spills, wipe with absorbent material or soak with absorbent material and dispose of properly – see section 13

Emergency Responders: See instructions above.

Environmental Precautions: Do not allow into open waterways and ground water systems. Local authorities should be advised if significant spillages cannot be contained.

Methods for containment: Dike or divert spill from access to open waterways, or capping of drains.

Methods for cleaning up: Soak up with inert absorbent material (i.e. sand).

Other information: Refer to section 13 for appropriate disposal.

7 HANDLING AND STORAGE

Precautions for safe handling

Protective Measures: Avoid spray back and splashing. Keep container tightly closed when not in use.

Measures to prevent fire: Not applicable. Non flammable liquid.

Measure to prevent aerosol and dust generation: Not applicable.

Measures to protect environment: Avoid spills and keep away from drains.

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SAFETY DATA SHEET in accordance with REGULATION (EC) No 1907/2006 & (EU) No 2015/282

7 HANDLING AND STORAGE - continued

Advice on general occupational hygiene: Do not eat, drink and smoke in work area. Wash hands after using. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities

Technical Measures and storage conditions: Store in cool dry area. Keep container tightly closed.

Packing Materials: Suitable for storage in HDPE and PET plastics.

Requirements for storage rooms and vessels: Do not allow to freeze or overheat.

Storage Class - Further information on storage conditions: Store locked up.

Specific End Uses - Recommendations: Cleaner and scale remover for non-porous surfaces

Specific End Uses - Industrial sector specific solutions: See above

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limit Values: Potassium Iodide (7681-11-0) Bulgaria - 5.0 mg/m³ TWA

Exposure Controls

Appropriate Engineering Controls Avoid spray back and splashing. Keep container tightly closed when not in use.

Personal Protection Equipment

Eye and Face Protection: Wear eye protection.

Skin Protection - Hands: Wear gloves.

Skin Protection – Other skin protection: Not needed.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal Hazards: Not needed.

Environmental exposure controls: Do not allow into open waterways and ground water systems.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Aqua Liquid	Vapour Density:	Not tested
Odor:	Wintergreen-Herbal added odor	Relative Density ASTM D-4017:	1,023 g/mL
Odor Threshold:	Not determined	Solubility:	100% in water
pH:	1,0 – 1,5	Partition Coefficient:	Not tested
Freezing Point:	0°C (32°F)	Auto-Ignition Temperature:	None, see flash point
Boiling Point:	100°C (213°F)	Decomposition Temperature:	Not tested
Flash Point:	None	Viscosity:	Not tested
Evaporation Rate:	Not tested	Explosive Properties:	None, see flash point
Flammability:	None, see flash point	Oxidizing Properties:	None, contains no oxidizers
Vapour Pressure:	Not determined	VOCs CARB Method 310:	0.0%
Upper/Lower Flammability or explosive limits:	Not applicable		

10 STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical Stability: Under storage at normal ambient temperatures (minus 40° C to + 40° C), the product is stable

Possibility of Hazardous Reactions: Do not mix with acids, oxidizers, chlorine. May release dangerous gases (chlorine)

Conditions to avoid: Excessive heat, light or freezing temperatures

Incompatible Materials: Materials susceptible to acidic agents.

Hazardous decomposition products: No known hazardous decomposition products.

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11 TOXICOLOGICAL INFORMATION

Acute Toxicity (for mixture)- **Oral (LD₅₀, rat, mg/kg):** > 5000¹ **Dermal (LD₅₀, rat, mg/kg):** > 5000¹
Inhalation (LC₅₀, rat, mg/l/4h): Contains no ingredients classifiable in this category

Skin Corrosion /Irritation: Slight corrosive per Corrositex-In Vitro Dermal Corrosivity Test.

Serious Eye damage/Irritation: Slight corrosive per Corrositex-In Vitro Dermal Corrosivity Test.

Respiratory or skin sensitization: No. ¹

Carcinogenicity: No. ¹

Germ cell mutagenicity: No. ¹

Reproductive toxicity: No. ¹

Summary of evaluation of CMR properties: Mixture and ingredients are not classifiable according to CLP in this category.

STOT-single exposure: No. ¹

STOT-repeated exposure: No. ¹

Aspiration hazard: No. ¹

¹ calculated. No animal testing performed.

12 ECOLOGICAL INFORMATION

Toxicity

Acute		Chronic	
Fish:	Rainbow trout (<i>Oncorhynchus mykiss</i>) > 100 ppm	Fish:	Not tested
Crustacea:	Not tested	Crustacea:	Not tested
Algae/aquatic plants:	Not tested	Algae/aquatic plants:	Not tested
Other organisms:	Not tested	Other organisms:	Not tested

Persistence and degradability:

Abiotic Degradation: Surfactant degrades abiotically

Physical- and photo-chemical elimination: Not assessed

Biodegradation: Readily Biodegradable per OECD 301D, closed bottle test.

Bioaccumulative potential

Partition coefficient n-octanol/ water (log Kow): Not assessed

Bioconcentration factor (BCF): Not assessed

Mobility in soil

Known or predicted distribution to environmental compartments: Unknown

Surface Tension: Not tested

Adsorption/Desorption: Not tested

Results of PBT and vPvB assessment: Contains now ingredients known as PBT or vPvB.

Other adverse effects: Unknown

Additional Information: None

13 DISPOSAL CONSIDERATIONS

Unused and Used liquid disposal: May be considered hazardous in your area depending on usage and tonnage of disposal – check product IDS and with local, national and European waste management legislation for appropriate methods of disposal. *Waste should not be disposed of by release to sewers.*

Empty Container disposal Triple rinse plastic bottles and offer all up for recycling.

Never dispose of preparation into lakes, streams, and open bodies of water or storm drains.

Be sure to follow any National or Regional provisions that may be in force.

14 TRANSPORTATION INFORMATION

DOT / TDG: UN 3265 Corrosive liquid, acidic, organic, n.o.s. (urea hydrochloride), III, 8

IMO / IDMG: UN 3265 Corrosive liquid, acidic, organic, n.o.s. (urea hydrochloride), III, 8

ICAO-TI/ IATA-DGR: UN 3265 Corrosive liquid, acidic, organic, n.o.s. (urea hydrochloride), III, 8

Simple Green® Lime Scale Remover

SAFETY DATA SHEET in accordance with REGULATION (EC) No 1907/2006 & (EU) No 2015/282

14 TRANSPORTATION INFORMATION - continued

ADR / RID / ADN: UN 3265 Corrosive liquid, acidic, organic, n.o.s. (urea hydrochloride), III, 8
AND tank vessels: UN 3265 Corrosive liquid, acidic, organic, n.o.s. (urea hydrochloride), III, 8

UN Number: UN 3265
UN Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (urea hydrochloride)
Transport Hazard Class(es): 8
Packing Group: III
Environmental Hazards: Marine Pollutant - NO
Special Precautions for User: Check section 3, section 7 and IDS for ingredient classification
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

15 REGULATORY INFORMATION

This mixture contains only ingredients which have been subject to a pre-registration according to Regulation (EC) No. 1907/2006 (REACH).

Detergent Regulation 648/2004/EC : Please see separate IDS for full ingredient disclosure

Germany Water Classification: Sodium Citrate (6132-04-3) – ID Number 2203, Hazard Class 1
Alcohol Ethoxylate (68439-46-3) – ID Number 670, Hazard Class 2
Potassium Iodide (7681-11-0) – ID Number 2660, Hazard Class 1

Additional Markings: None.

VOC Content: Contains 0,0% VOC according to California Air Resources Board Method 310.

Chemical Safety Assessment: No chemical safety assessment has been carried out for this mixture by the supplier.

16 OTHER INFORMATION

Abbreviations

H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation
H318 - Causes serious eye damage
H319 - Causes serious eye irritation

Classification according to Regulation (EC) Nr. 1272/2008

Classification	Procedure
Skin Corrosive 1C	Test data and calculation

Manufacturer Numbers:

Size	Number		UPC
946 mL	1700500172103	1710501272103	0-43318-00198-7
10 L	1700500172110	72110	0-43318-72110-6
208 L	1700500172120	72120	0-43318-72120-5

The statements in this Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

Date of Issue: 01.06.2015

Replaces Data Sheet of: 04.09.2014

Indication of changes: Updated for June 1, 2015 CLP deadline

Responsible Party for SDS: Simple Green Research & Development Department, info@simplegreen.com