

Safety Data Sheet: Simple Green® Lime Scale Remover

Version No. 50128-18A

Issued: 13 November 2018

Supersedes: 1 May 2016

Prior version no: 50128-16A

Model Code of Practice - Preparation of Safety Data Sheets for Hazardous Chemicals 23/12/2011

Section 1: IDENTIFICATION: PRODUCT IDENTIFIER & IDENTITY FOR THE CHEMICAL

Product identifier: Simple Green® Lime Scale Remover

Other means of identification: Please see section 16

Recommended use of chemical: Acid based cleaner for the removal of lime, scale and mineral buildup.

Restrictions on use of chemical: Do not use in conjunction with other chemicals OR on surfaces not resistant to acids.

Details of manufacturer or importer:

Simple Green Australia Pty Ltd.

P.O. Box 1253 Golden Grove Village LPO

Golden Grove, SA 5125 Australia

Telephone: 1300 826 470

Fax: 1300 826 473

Website: simplegreen.com.au

Email: info@simplegreenaustralia.com

Emergency Phone: 1300 826 470 Available Monday – Friday, 9am-5pm

13 11 26 Australia Poisons Information Centre, Available 24 hours a day, 7 days a week

Section 2: HAZARDS IDENTIFICATION

Classification of the hazardous chemical according to Model Work Health & Safety Regulations:

Skin Corrosive – 1C

Label Elements:

Signal Word: DANGER

Pictogram:



Hazard Statement: H314 – Causes severe skin burns and eye damage.

Precautionary Statement:

- P260 – Do not breathe dusts or mists.
- P264 – Wash hands thoroughly after handling.
- P280 – Wear protective gloves/eye protection.
- P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P363 – Wash contaminated clothing before reuse.
- P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P310 – Immediately call a POISON CENTER.
- P321 – Specific treatment (see first aid 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.
- P501 – Dispose of contents/container in accordance with local/regional/national regulations.

Other hazards with do not result in classification: None known.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS Number</u>	<u>Percent Range</u>
Water	7732-18-5	> 81%*
Urea Hydrochloride	506-89-8	≤ 6%*
Sodium Citrate	6132-04-3	< 5%*
Ethoxylated Alcohol	68439-46-3	< 5%*
Potassium Iodide	7681-11-0	< 1%*
Fragrance	Proprietary Mixture	< 1%*
Colorant	Proprietary Mixture	< 1%*

*exact percentage of ingredients are commercially confidential

Safety Data Sheet: Simple Green® Lime Scale Remover

Version No. 50128-18A

Issued: 13 November 2018

Supersedes: 1 May 2016

Prior version no: 50128-16A

Model Code of Practice - Preparation of Safety Data Sheets for Hazardous Chemicals 23/12/2011

Section 4: FIRST AID MEASURES

Description of necessary first aid measures

Inhalation: *Immediate and delayed symptoms* - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER.

Skin contact: *Immediate and delayed symptoms* - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER.

Eye Contact: *Immediate symptoms* – 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. *Delayed symptoms* – Proceed as with immediate symptoms.

Ingestion: *Immediate and delayed symptoms* - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER.

Section 4: FIRST AID MEASURES - continued

First Aid Facilities: Eye wash station or treatment recommended.

Symptoms caused by exposure: No expected acute, delayed or aggravated conditions or symptoms from exposure to mixture.

Medical attention and special treatment: Treat symptomatically. No testing or monitoring for delayed effect required.

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing equipment: *Suitable*- Use dry chemical, CO₂, water spray or “alcohol” foam.
Unsuitable-High volume jet water.

Specific hazards arising from the chemical: *Formulation is non-flammable and will boil until evaporated.*

Special protective equipment and precautions for fire fighters: Keep containers cool with water spray. Firefighters should wear self-contained breathing apparatus and full fire-fighting turn-out gear and eye protection.

See Section 16 for NFPA information

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Eyeglasses/ goggles and gloves recommended to prevent eye and skin contact. Ensure sufficient ventilation. Area should be roped off to prevent slips and falls.

Environmental Precautions: Prevent runoff from entering drains, sewers, surface and ground water.

Methods and materials for containment and cleaning up: Cap or plug leaking containers. Cover all drains. Dike or soak up with inert adsorbent material. Dispose of in appropriate waste containers. See Section 13 for disposal considerations.

Section 7: HANDLING AND STORAGE

Precautions for safe handling: Before use carefully read the product label. Use of safe work practices are recommended to avoid eye contact and spills. Observe good personal hygiene, including washing hands after use and before eating. Remove contaminated clothing and protective equipment before entering eating area. Prohibit eating, drinking and smoking in contaminated area (eg. If container is damaged). Ensure adequate ventilation. Keep out of reach of children. Keep away from heat, sparks, open flame and direct sunlight. Do not pierce any part of the container.

Conditions for safe storage, including any incompatibilities: Store in cool, dry, well-ventilated area, removed from oxidizing agents, acids and foodstuffs. Ensure containers are adequately labeled and protected from physical damage when not in use. Do not store at temperatures above 109°F (42.7°C).

Safety Data Sheet: Simple Green® Lime Scale Remover

Version No. 50128-18A

Issued: 13 November 2018

Supersedes: 1 May 2016

Prior version no: 50128-16A

Model Code of Practice - Preparation of Safety Data Sheets for Hazardous Chemicals 23/12/2011

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure standards: No components listed with TWA or STEL values.

Biological monitoring: Not provided.

Appropriate engineering controls: Use in well ventilated areas and have eyewash stations, eyewash treatments, or showers available.

Personal protective equipment (PPE)

Eye and Face Protection: Safety glasses, goggles or shields recommended.

Skin Protection: Not necessary. PVC or nitrile gloves recommended when used for prolonged exposure.

Respiratory Protection: Not necessary.

Thermal Hazards: Not applicable.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Turquoise Liquid	Partition Coefficient: n-octanol/water:	Not determined
Odour:	Added wintergreen odour	Autoignition Temperature:	Non-flammable
Odour Threshold:	Not determined	Decomposition Temperature:	42°C (109°F)
pH:	1.0 – 1.5	Viscosity:	Like water
Freezing Point:	0°C (32°F)	Specific Gravity:	1.00 – 1.03
Boiling Point & Range:	101°C (213.8°F)	VOCs:	**Water & fragrance exemption in calculation
Flash Point:	>100°C (212°F)	SCAQMD 304-91 / EPA 24:	Not determined
Evaporation Rate:	Not determined	CARB Method 310**:	0.1 g/L 0.01%
Flammability (solid, gas):	Non-flammable	SCAQMD Method 313:	Not determined
Upper/Lower Flammability or Explosive Limits:	Non-flammable	VOC Composite Partial Pressure:	Not determined
Vapor Pressure:	Not determined	Relative Density:	0.999 – 1.029 kg/L
Vapor Density:	Not determined	Solubility:	100% in water

Section 10: STABILITY AND REACTIVITY

Reactivity: Non-reactive.

Chemical stability: Stable under normal conditions 21°C (70°F) and 14.7 psig (760 mmHg).

Conditions to avoid: Excessive heat or cold.

Incompatible materials and possible hazardous reactions: Do not mix with oxidizers, acids, bathroom cleaners or disinfectants. Hazardous gases may occur from contact with ammoniated or chlorinated products.

Hazardous decomposition products: None known.

Section 11: TOXICOLOGICAL INFORMATION

Information on Routes of Exposure:

Inhalation - Overexposure may cause headache.

Skin Contact - Up to four hours of contact with no rinsing may lead to corrosion.

Eye Contact - Up to four hours of contact with no rinsing may lead to corrosion.

Ingestion - May cause upset stomach.

Early onset symptoms related to exposure: No symptoms expected under typical use conditions.

Delayed health effects from exposure: No symptoms expected under typical use conditions. Overexposure may lead to headache and dry skin.

Safety Data Sheet: Simple Green® Lime Scale Remover

Version No. 50128-18A

Issued: 13 November 2018

Supersedes: 1 May 2016

Prior version no: 50128-16A

Model Code of Practice - Preparation of Safety Data Sheets for Hazardous Chemicals 23/12/2011

Section 11: TOXICOLOGICAL INFORMATION - continued

Numerical Measures of Toxicity

Acute Toxicity: Oral LD₅₀ (rat) > 5 g/kg body weight
Dermal LD₅₀ (rabbit) > 5 g/kg body weight

Calculated via OSHA HCS 2012 / Globally Harmonized System of Classification and Labelling of Chemicals

Skin Corrosion/Irritation: Mild Corrosive per Corrositex-In Vitro Dermal Corrosivity testing. No animal testing performed.

Eye Damage/Irritation: Mild Corrosive per Corrositex-In Vitro Dermal Corrosivity testing. No animal testing performed.

Respiratory or skin sensitization: No ingredients trigger or classify under this category.

Germ Cell Mutagenicity: No ingredients trigger or classify under this category.

Carcinogenicity: No ingredients trigger or classify under this category under NTP, IARC.

Reproductive Toxicity: No ingredients trigger or classify under this category.

STOT-Single Exposure: No ingredients trigger or classify under this category.

STOT-Repeated Exposure: No ingredients trigger or classify under this category.

Aspiration Hazard: No ingredients trigger or classify under this category.

Exposure levels: No ingredients have recognized exposure levels

Interactive effects: Not known.

Data limitations: There are no data limitations when assessing this mixture.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labelling of Chemicals.

Aquatic: Not tested on finished formulation.

Terrestrial: Not tested on finished formulation.

Persistence and Degradability: Readily Biodegradable based on biodegradation profile of ingredients
Urea Monohydrochloride: Inorganic. (degrades abiotically)
Ethoxylated Alcohol: Readily biodegradable, 73.8% in 28 days (per OECD 301D).

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

Section 13: DISPOSAL CONSIDERATIONS

Safe handling and disposal methods

Unused or used liquid: may be considered hazardous in your area depending on usage and tonnage of disposal – check with local council and/or state environmental authority for advice on disposal of chemicals.

Disposal of packaging

Contaminated packaging: may be considered hazardous in your area depending on usage and tonnage of disposal – check with local council and/or state environmental authority for advice on disposal of chemicals.

Empty non-contaminated packaging: may be offered for recycling.

Environmental regulations

Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

Section 14: TRANSPORT INFORMATION

U.N. Proper Shipping Name: Corrosive liquid, acidic, n.o.s. (urea monohydrochloride)

U.N. Number: UN 3265

Transport Hazard Class(es): 8

Packing Group: III

Safety Data Sheet: Simple Green® Lime Scale Remover

Version No. 50128-18A

Issued: 13 November 2018

Supersedes: 1 May 2016

Prior version no: 50128-16A

Model Code of Practice - Preparation of Safety Data Sheets for Hazardous Chemicals 23/12/2011

Section 14: TRANSPORT INFORMATION

Environmental Hazards: Marine Pollutant - NO

Transport in Bulk (according to Annex II of MARPOL 73/78 and IBC Code): Unknown.

Special precautions which user needs to be aware of/comply with, in connection with transport or conveyance either within or outside their premises: None known.

Additional information: Unknown.

Hazchem or Emergency Action Code: No Hazchem or action code applies to this mixture.

AU ADG: UN 3265 Corrosive liquid, acidic, organic, n.o.s. (urea hydrochloride), III, 8

ICAO/ IATA: 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

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

EPA Test Method 1110A Non-corrosive to steel (SAE 1020)

Section 15: REGULATORY INFORMATION

Is the hazardous chemical subject to

Montreal Protocol (Ozone depleting substances): No

The Stockholm Convention (Persistent Organic Pollutants): No

The Rotterdam Convention (Prior Informed Consent): No

Basel Convention (Hazardous Waste): No

International Convention for the Prevention of Pollution from Ships (MARPOL): No

AICS: All chemicals listed on the Australian Inventory of Chemical Substances (AICS)

Poison Schedule: A poison schedule number has not been allocated to this product using the criteria in the standard for the Uniform Scheduling of Drugs and Poisons (SUSDP)

Section 16: OTHER INFORMATION

Manufacturer's Part Numbers

50005 - 20 Litre

50032 - 946 Millilitre

50128 - 3.78 Litre

50155 - 208 Litre

NFPA:

Health – corrosive

Stability – Stable

Flammability – Non-flammable

Special - None



Prepared / Revised By: Simple Green Australia

This SDS has been revised in the following sections: Change of Company Contact Information

DISCLAIMER: The information provided with this SDS is furnished in good faith and without warranty of any kind. Personnel handling this material must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of this material and the safety and health of employees and customers. Sunshine Makers, Inc. assumes no additional liability or responsibility resulting from the use of, or reliance on this information.