



DELTAGREEN PRODUCTS, INC
13714 ALMA AVE, GARDENA, CA 90249
Tel: 310-532-0353 Fax: 310-532-0372
E-mail: info@deltagreenonline.com

SAFETY DATA SHEET (SDS) DeltaGreen® Stainless Steel Cleaner

Issue Date: January 8, 2019

OSHA HCS-2012 / GHS

Section 1. Identification

Product Name	DeltaGreen® Stainless Steel Cleaner
Manufacturer's Product Number	DG-400
Date of Issue	January 8, 2019

Emergency Telephone Numbers

For all emergency calls please contact:	310-532-0353
Email:	info@deltagreenonline.com
Address:	DeltaGreen Products 13714 Alma Ave. Gardena, CA 90249

Section 2. Hazards Identification

This product is not classified as hazardous under 2012 OSHA Hazard Communication Standards (29 CFR 1910.1200).

OSHA HCS 2012

Label Elements

Signal Word: None

Hazard Statements: None

Precautionary Statements: None

Hazards Not Otherwise Classified (HNOC): None

Other Information:

Hazard Symbol(s) Pictogram(s): None required

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Section 3. Composition/Information on Ingredients

Ingredients	CAS #	Percent
Water	7732-18-5	10-20
Canola Oil	120962-03-0	40-60
Soybean Oil Methyl Ester	67784-80-9	20-30
Ethaoxylated Lauryl Alcohol	9002-92-0	2.5-5
Lauryl Alcohol Alkoxylate	68439-51-0	2.5-5
Proprietary Ingredients	N/A	25-30

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with plenty of water.

Skin Contact Rinse with plenty of running water.

Inhalation No adverse health effects anticipated from the solution with exposure.

Ingestion If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Call medical attendant, medical doctor, or poison control center.

Most Important Symptoms/Effects, Acute and Delayed: None known.

Indication of Immediate Medical Attention and Special Treatment Needed, If necessary: Treat Symptomatically

Section 5. Fire Fighting Measures

Suitable & Unsuitable Extinguishing Media: Use Dry chemical, CO₂, water spray or "alcohol" foam. Avoid high volume jet water

Specific Hazards Arising from Chemical: In event of fire, fire created carbon oxides may be formed.

Special Protective Actions for Fire-Fighters: Wear positive pressure self-contained breathing apparatus; Wear full protective clothing.

This product is non-flammable. See Section 9 for Physical Properties.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and Materials for Containment and Clean Up:

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and Storage

Precautions for Safe Handling

Protective measures: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination

Section 8. Exposure Controls/Personal Protection

Appropriate engineering Control

Good general ventilation should be sufficient to control worker exposure to airborne contaminants

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Exposure Limit Values: No components listed with TWA or STEL values under OSHA or ACGIH.

Individual Protection Measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
Appropriate techniques should be used to remove potentially contaminated clothing.

Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side shields.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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Section 9. Physical and Chemical Properties

BOILING POINT:	212 °F	SPECIFIC GRAVITY (H ₂ O=1):	1.0
VAPOR PRESSURE @ 20 DEG C:	N/A	MELTING POINT:	N/A
VAPOR DENSITY (AIR=1):	1	EVAPORATION RATE:	Negligible
SOLUBILITY IN WATER:	100%	pH	8.5 ± 0.5
APPEARANCE & ODOR:	Milky-green/Soy	VOC	Non Detected

Section 10. Stability and Reactivity

Reactivity:	Non-reactive
Stability:	The product is stable.
Hazardous Decomposition Reaction:	None known.
Condition to Avoid:	Excessive heat and direct sunlight
Hazardous Polymerization:	Will not occur.
Incompatible Materials:	Do not mix with oxidizers
Hazardous Decomposition Products:	Normal products of combustion – CO, CO ₂

Section 11. Toxicological Information

Likely Routes of Exposure:

Eye Contact Not expected to cause irritation.

Skin Contact Not expected to cause irritation. Repeated contact may cause dry skin.

Inhalation No adverse health effects anticipated from the solution with exposure.

Ingestion May cause upset stomach.

Symptoms related to the physical, chemical and toxicological characteristics: no symptoms expected under normal use conditions.

Delayed and immediate effects and or chronic effects from short term exposure: no symptoms expected under normal use conditions.

Delayed and immediate effects and or chronic effects from long term exposure: headache, dry skin, or skin irritation may occur.

Interactive effects: Not known.

The bioassay was performed in accordance with State protocol with duplicate dilutions of 750mg/l, 500mg/l and 250mg/l.

More than 50% of the test species (Pimephales Promelas) survived at a dilution of 750mg/l yielding an LC50 of 750mg/l. In accordance with Title 22, State of California a substance with LC50 >500mg/l is considered non-hazardous.

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Skin Corrosion/Irritation:	No animal testing performed
Eye Damage/Irritation:	No animal testing performed
Germ Cell Mutagenicity:	Mixture does not classified under this category.
Carcinogenicity:	Mixture does not classified under this category.
Reproductive Toxicity:	Mixture does not classified under this category.
STOT-Single Exposure:	Mixture does not classified under this category.
STOT-Repeated Exposure:	Mixture does not classified under this category.
Aspiration Hazard:	Mixture does not classified under this category.

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:	Aquatic Toxicity - Low, based on OECD 201, 202, 203 + Microtox: EC ₅₀ & IC ₅₀ ≥100 mg/L. Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labelling of Chemicals.
Terrestrial:	Not tested on finished formulation.
Persistence and Degradability:	Readily Biodegradable per OCED 301D, Closed Bottle Test
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.

Section 13. Disposal Method

Disposal Method

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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Section 14. Transport Information

U.N. Number:	Not applicable	U.N. Proper Shipping Name:	Cleaning Compound, Liquid NOI
Transport Hazard Class(es):	Not applicable	Class:	55
Packing Group:	Not applicable	Marine Pollutant - NO	
Environmental Hazards:			
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.
U.S. (DOT) / Canadian TDG:	Not Regulated for shipping.	ICAO/ IATA:	Not classified as Hazardous
IMO / IDMG:	Not classified as Hazardous	ADR/RID:	Not classified as Hazardous

Section 15. Regulatory Information

U.S. Federal Regulations

SARA 313 toxic chemical notification and release reporting:	No products were found.
Clean Water Act (CWA) 307:	No products were found.
Clean Water Act (CWA) 311:	No products were found.
Clean Air Act (CAA) 112 regulated toxic substances	No products were found.
State Right to know Lists:	No products were found.

State Regulations

California Prop. 65:	No products were found.
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Section 16. Other Information

Hazardous Material Information System (U.S.A.)

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.