

### DeltaGreen® GLASS CLEANER

# SAFETY DATA SHEET (SDS)

Issue Date: JULY 7, 2017

### **Section 1.** Identification

Product name **DELTAGREEN GLASS CLEANER** 

Manufacturer's Product Number **DG-100** 

Date of Issue JULY 7, 2017

For all emergency calls, please contact: (310) 532 0353

manufacturer: DeltaGreen Products, Inc. address: 13714 Alma Ave, Gardena

CA 90249, USA

### Section 2. Hazards Identification

**OSHA/HCS** status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the : SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 substance or mixture

SKIN SENSITIZATION - Category 1

**GHS** label elements

**Hazard pictograms** 

Signal word Warning

**Hazard statements** Causes serious eye irritation.

May cause an allergic skin reaction.

**Precautionary statements** 

General : Read label before use. Keep out of reach of children. If medical advice is

needed, have product container or label at hand.

**Prevention** Wear protective gloves. Wear eye or face protection. Avoid breathing vapor.

Wash hands thoroughly after handling. Contaminated work clothing should not

be allowed out of the workplace.

Response : IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing

> before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing. If eye irritation persists: Get

medical attention.

**Storage** Not applicable.

Dispose of contents and container in accordance with all local, regional, national **Disposal** 

and international regulations.

Supplemental label elements None known.

Hazards not otherwise classified: None known.

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## **Section 3.** Composition / Information on Ingredients

**SUBSTANCE/MIXTURE:** Mixture

Ingredients	CAS No.	%
2-(2-butoxyethoxy) ethanol	112-34-5	60-100
N-Cocoamidopropyl dimethylamine oxide	68155-09-9	1-5
1,2-benzisothiazol-3(2H)-one	2634-33-5	0.1-1

Any concentration shown as a range is to protect confidentiality or is due to batch vatiation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

## **Section 4. First-Aid Measures**

**EYE CONTACT:** Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower eyelids. Check for and remove any contact lenses. Continue to rinse for at

least 10 minutes. Get medical attention.

**INHALATION:** Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open

airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**SKIN CONTACT:** Wash with plenty of soap and water. Remove contaminated clothing and shoes.

Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing

before reuse. Clean shoes thoroughly before reuse.

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INGESTION:

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

## Potential acute health effects

**EYE CONTACT:** Causes serious eye irritation.

**INHALATION:** No known significant effects or ctitical hazards.

**SKIN CONTACT:** May cause an allergic skin reaction.

**INGESTION:** No knnown significant effects or ctitical hazards.

### Over-exposure signs/symptoms

**EYE CONTACT:** Adverse symptoms may include the following: pain or irritation, watering, redness

**INHALATION:** No specific data.

**SKIN CONTACT:** Adverse symptoms may include the following: irritation, redness

**INGESTION:** No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician:** Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training.

It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before

removing it, or wear gloves.

See toxicological information

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## **Section 5.** Fire-Fighting Measures

### **Extinguishing media**

**Suitable Extinguishing Media:** Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable Extinguishing Media:** None known.

**Special Hazards Arising from the Chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

Fire water contaminated with this material must be contained and prevented from

**Hazardous thermal decomposition** being discharged to any waterway, sewer or drain.

**products:** Decomposition products may include the following materials:

carbon dioxide carbon monoxide

**Special protective actions for fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without suitable

training.

Fire-fighters should wear appropriate protective equipment and self-contained

breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 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. Avoid breathing vapor or mist.

Provide adequate ventilation. Wear appropriate respirator when ventilation is

inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised 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".

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**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). Water polluting material. May be harmful to the environment if released in large quantities.

## Methods and materials for containment and cleaning 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. Approach release from

upwind. 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. Contaminated absorbent material may pose the same hazard as the spilled product. 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). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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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. Store locked up. 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

### **Control Parameters**

### Occupational exposure limits

Ingredient name E	xposure limits
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2-(2-butoxyethoxy)ethanol ACGIH TLV (United States, 4/2014). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor

**Appropriate engineering controls:** 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.

### 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.

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**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: chemical splash goggles.

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**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

## **Information on Physical and Chemical Properties**

### **Material Description**

Physical Form:	Liquid
Color:	Yellow (light)
Taste:	Not relevant
Particulate Size:	Not relevant
Odor Threshold:	Not relevant
Appearance/ Description:	Liquid
Odor:	Not available
Particulate Type:	Not relevant
Aerosol Type:	Not relevant
Physical and Chemical Properties:	Not relevant

### Volatility

Vapor Pressure:	No Data Available		
Vapor Density:	No Data Available		
<b>Evaporation Rate:</b>	No Data Available		
VOC (Vol.):	Zero Detected		
VOC (Wt.):	No Data Available		
Volatiles (Wt.):	No Data Available		
Flash Point:	No Data Available		
LEL:	No Data Available		
Self-Accelerating			
Decomposiotion			
Temperature (SADT):	No Data Available		
Burning Time:	No Data Available		
Flame Extension:	No Data Available		
Flame Duration:	No Data Available		
UEL:	No Data Available		
Autoignition:	No Data Available		
Heat of Combustion (ΔHc):	No Data Available		
Flame Height:	No Data Available		
Ignition Distance:	No Data Available		
Flammability (solid, gas):	No Data Available		

### **General Properties**

Boiling Point:	No Data Available
Decomposition Temperature:	No Data Available
pH:	10 to 11
Density:	Not Available
Water Solubility:	Dispersable in water
Viscosity:	No Data Available
Oxidizing Properties:	No Data Available
Melting Point:	No Data Available
Heat of Decomposition:	No Data Available
Specific Gravity/Relative Density:	No Data Available
Bulk Density:	No Data Available
Solvent Solubility:	No Data Available
Explosive Properties:	No Data Available

#### Environmental

Half-Life:	Not Available
Coefficient of water/oil	
distribution:	Not Available
Bioconcentration Factor:	Not Available
Chemical Oxygen Demand:	Not Available
Octanol/Water Partition	
coefficient:	Not Available
Bioaccumulation Factor:	Not Available
Biochemical Oxygen Demand	
BOD/BOD5:	Not Available
Persistence:	Not Available

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## **Section 10. Stability and Reactivity**

**Reactivity:**No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability:** The product is stable.

**Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No specific data.

Incompatible materials: No specific data.

**Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

## **Section 11. Toxicological Information**

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
, , , , , , , , , , , , , , , , , , , ,	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rabbit	2200 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
	LD50 Oral	Rat	5660 mg/kg	-
N-Cocoamidopropyl	LD50 Oral	Rat	>2000 mg/kg	-
dimethylamine oxide				
1,2-benzisothiazol-3(2H)-one	LD50 Oral	Mouse	1150 mg/kg	-
	LD50 Oral	Rat	1020 mg/kg	-
	LD50 Oral	Rat	1020 mg/kg	-

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
1,2-benzisothiazol-3(2H)-one	Eyes - Severe irritant Skin - Mild irritant	Rabbit Human	-	20 milligrams 48 hours 5 Percent	-

### **Sensitization**

**Mutagenicity** 

Product/ingredient name Experiment Result

Not available.

**Carcinogenicity** 

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Product/ingredient name Result Species Dose Exposure

Not available.

**Reproductive toxicity** 

Product/ingredient name Maternal Fertility Development Species Dose Exposure

toxicity toxin

Not available.

**Teratogenicity** 

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name Category Route of Target organs

exposure

Not available.

**Aspiration hazard** 

Name Result

Not available.

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering

redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion** : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

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#### Potential chronic health effects

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
	6711.9 mg/kg 4027.1 mg/kg

## **Section 12.** Ecological Information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
1,2-benzisothiazol-3(2H)-one	Acute LC50 1300 mg/l Acute EC50 4.4 mg/l Acute EC50 97 ppb Fresh water Acute LC50 10 to 20 mg/l Fresh water Acute LC50 1.6 mg/l Acute LC50 167 ppb Fresh water	Fish Daphnia Daphnia - Daphnia magna Crustaceans - Ceriodaphnia dubia Fish Fish - Oncorhynchus mykiss	96 hours 48 hours 48 hours 48 hours 96 hours

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
N-Cocoamidopropyl dimethylamine oxide	-	98.44 % - F	Readily - 25 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
N-Cocoamidopropyl dimethylamine oxide	-		-		Inheren	t

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
2-(2-butoxyethoxy)ethanol	1	-	low

#### **Mobility in soil**

Other adverse effects : No known significant effects or critical hazards.

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## **Section 13.** Disposal Considerations

**Disposal methods:** 

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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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

	DOT Classification	TDG Classification	IMDG	IATA
UN number	Not regulated.	UN3082	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No	No	No	No
Additional information	-	-	-	-

**Special precautions for user:** 

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC Code: Not available.

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## **Section 15.** Regulatory Information

### California Prop. 65

Does not contain any chemicals known to the State of CA to cause cancer, birth defects or reproductive harm.

### **U.S. Federal regulations**

United States inventory (TSCA 8b):

All components are listed or exempted

Clean Air Act Section 113(b) Hazardous Air Pollutants (HAPs): Not listed

Clean Air Act Section 602 Class I Substances:

Clean Air Act Section 602 Class II Substances: Not listed

DEA List I Chemicals (Precursor Chemicals):

Not listed

DEA List II Chemicals (Essential Chemicals):

Not listed

#### SARA 302/304

### Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
hydrogen peroxide solution	0 - 0.1	Yes.	1000	106.1	1000	106.1

**SARA 304 RQ** : 21674577.9 lbs / 9840258.4 kg

**SARA 311/312** 

Classification : Immediate (acute) health hazard

**Composition/information on ingredients** 

Name	%	Fire hazard	Sudden release of pressure	Reactive		Delayed (chronic) health hazard
2-(2-butoxyethoxy)ethanol	60 - 100	Yes.	No.	No.	Yes.	No.
N-Cocoamidopropyl dimethylamine oxide	1 - 5	No.	No.	No.	Yes.	No.
1,2-benzisothiazol-3(2H)-one	0.1 - 1	No.	No.	No.	Yes.	No.

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	2-(2-butoxyethoxy)ethanol	112-34-5	60 - 100
Supplier notification	2-(2-butoxyethoxy)ethanol	112-34-5	60 - 100

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

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### **Section 16. Other Information**

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

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.

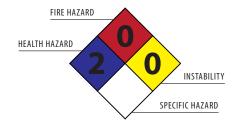
The customer is responsible for determining the PPE code for this material.

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

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- 0 Minimal Hazard
- 1 Slight Hazard
- 2 Moderate Hazard
- 3 Serious Hazard
- 4 Severe Hazard



#### Notice to reader

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