

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** 12881G SomaCount Surfactant - Green

#### 1.2. Intended Use of the Product

**Use of the Substance/Mixture:** Laboratory chemicals, Synthesis of substances

#### 1.3. Name, Address, and Telephone of the Responsible Party

##### Company

Bentley Instruments, Inc.  
4004 Peavey Rd (Physical Plant)  
P.O. Box 150 (Mailing Address)  
Chaska, MN 55318  
USA  
(952) 448-7600

#### 1.4. Emergency Telephone Number

**Emergency Number** : ChemTel LLC  
(800)255-3924 (North America)  
+1 (813)248-0585 (International)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

Skin Irrit. 2 H315

Eye Dam. 1 H318

Aquatic Acute 1 H400

Aquatic Chronic 3 H412

Full text of hazard classes and H-statements : see section 16

#### 2.2. Label Elements

##### GHS-US Labeling

##### Hazard Pictograms (GHS-US)



##### Signal Word (GHS-US)

: Danger

##### Hazard Statements (GHS-US)

: H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H400 - Very toxic to aquatic life.  
H412 - Harmful to aquatic life with long lasting effects.

##### Precautionary Statements (GHS-US)

: P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P302+P352 - If on skin: Wash with plenty of water.  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a poison center or doctor.  
P321 - Specific treatment (see section 4 on this SDS).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P391 - Collect spillage.  
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

#### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

#### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Synonyms	Product Identifier	%	GHS US classification
Alcohols, C12-14-secondary, ethoxylated	Alcohols, C12-14, secondary, ethoxylated / C12-14 sec-Pareth / C12-14 sec-Pareth-5 / C12-14 sec-Pareth-3 / C12-14 sec-Pareth 5 / C12-14 sec-Pareth-7 / C12-14 sec-Pareth-8 / C12-14 sec-Pareth-9 / C12-14 sec-Pareth-12 / C12-14 sec-Pareth-15 / C12-14 sec-Pareth-20 / C12-14 sec-Pareth-30 / C12-14 sec-Pareth-40 / C12-14 sec-Pareth-50 / C12-14 sec-Pareth-70 / Ethoxylated secondary alcohols(C12-14) / Secondary alcohols, C12-14, ethoxylated / Softanol 70	(CAS-No.) 84133-50-6	90 – 100	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Polyethylene glycol	.alpha.-Hydro-.omega.-hydroxypoly(oxyethylene) / .alpha.-Hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) / 1,2-Ethandiol, homopolymer / Ethyleneglycol homopolymer / Ethoxylated 1,2-ethanediol / Ethylene oxide polymer / Macrogol / Macrogols / PEG / PEG-1M / PEG-2M / PEG-5M / PEG-7M / PEG-9 / PEG-9M / PEG-10 / PEG-14 / PEG-14M / PEG-16 / PEG-18 / PEG-20 / PEG-20M / PEG-23M / PEG-25M / PEG-32 / PEG-33 / PEG-40 / PEG-45 / PEG-45M / PEG-55 / PEG-60 / PEG-65M / PEG-75 / PEG-80 / PEG-90 / PEG-90M / PEG-100 / PEG-115M / PEG-135 / PEG-150 / PEG-160M / PEG-180 / PEG-180M / PEG-200 / PEG-220 / PEG-240 / PEG-350 / PEG-400 / PEG-450 / PEG-500 / PEG-800 / Polyethylene glycol 35 / Polyethylene glycol 115 / Polyethylene glycol 400 / Polyethylene glycol 1600 / Polyethylene glycol 6000 / Polyethylene glycol 8000 / Polyethylene glycol esters / Polyethylene glycol ether / Polyethylene glycols / Polyethylene oxide / Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-	(CAS-No.) 25322-68-3	1 – 5	STOT SE 3, H335

Full text of H-phrases: see section 16

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of First-aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Immediately drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Eye Contact:** Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

#### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**Symptoms/Injuries:** Causes skin irritation. Causes serious eye damage.

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None known.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

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## 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

## 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>).

**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing.

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing vapors, mist, spray. Do not get in eyes, on skin, or on clothing.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

### 7.3. Specific End Use(s)

Laboratory chemicals, Synthesis of substances

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

#### Polyethylene glycol (25322-68-3)

USA AIHA	WEEL TWA	10 mg/m <sup>3</sup> (molecular weight>200-aerosol)
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### 8.2. Exposure Controls

#### Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

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**Personal Protective Equipment** : Gloves. Protective clothing. Protective goggles.



**Materials for Protective Clothing** : Chemically resistant materials and fabrics.  
**Hand Protection** : Wear protective gloves.  
**Eye and Face Protection** : Chemical safety goggles.  
**Skin and Body Protection** : Wear suitable protective clothing.  
**Respiratory Protection** : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.  
**Other Information** : When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

**Physical State** : Liquid  
**Appearance** : Yellow  
**Odor** : Mild.  
**Odor Threshold** : No data available  
**pH** : No data available  
**Evaporation Rate** : No data available  
**Melting Point** : No data available  
**Freezing Point** : No data available  
**Boiling Point** : No data available  
**Flash Point** : 243 (ASTM D 92)  
**Auto-ignition Temperature** : No data available  
**Decomposition Temperature** : No data available  
**Flammability (solid, gas)** : Not applicable  
**Vapor Pressure** : < 0.013 hPa at 20 °C (68 °F)  
**Relative Vapor Density at 20°C** : No data available  
**Relative Density** : ≈ 1.006 at 20 °C (68 °F) (water = 1)  
**Solubility** : No data available  
**Partition Coefficient: N-Octanol/Water** : 2.72 log Pow  
**Viscosity** : No data available

**9.2. Other Information** No additional information available

## SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.  
**10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).  
**10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.  
**10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.  
**10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers.  
**10.6. Hazardous Decomposition Products:** Thermal decomposition may produce: Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

**Acute Toxicity (Oral):** Not classified  
**Acute Toxicity (Dermal):** Not classified  
**Acute Toxicity (Inhalation):** Not classified

Alcohols, C12-14-secondary, ethoxylated (84133-50-6)	
LD50 Oral Rat	2100 mg/kg
Polyethylene glycol (25322-68-3)	
LD50 Oral Rat	22 g/kg
LD50 Dermal Rabbit	> 20 g/kg

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**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General** : Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Alcohols, C12-14-secondary, ethoxylated (84133-50-6)	
LC50 Fish 1	3.7 (3 – 4) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
EC50 - Crustacea [1]	0.29 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	1.7 (Exposure time: 96 h - Species: Fathead Minnow)
EC50 - Crustacea [2]	0.9 mg/l (Exposure time: 48 h - Species: Daphnia magna)

### 12.2. Persistence and Degradability

12881G SomaCount Surfactant - Green	
Persistence and Degradability	May cause long-term adverse effects in the environment. Biodegradability >60%.

### 12.3. Bioaccumulative Potential

03771G-3 BactoCount Solubilizer – Green	
Bioaccumulative Potential	Not established.

**12.4. Mobility in Soil** No additional information available

### 12.5. Other Adverse Effects

**Other Information** : Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste Treatment Methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, and international regulations.

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### 14.1. In Accordance with DOT

**Proper Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Alcohols, C12-14-secondary, ethoxylated)

**Hazard Class** : 9

**Identification Number** : UN3082

**Label Codes** : 9

**Packing Group** : III

**ERG Number** : 171



### 14.2. In Accordance with IMDG

**Proper Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohols, C12-14-secondary, ethoxylated)

**Hazard Class** : 9

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**Identification Number** : UN3082  
**Packing Group** : III  
**Label Codes** : 9  
**EmS-No. (Fire)** : F-A  
**EmS-No. (Spillage)** : S-F



### 14.3. In Accordance with IATA

**Proper Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohols, C12-14-secondary, ethoxylated)

**Packing Group** : III  
**Identification Number** : UN3082  
**Hazard Class** : 9  
**Label Codes** : 9  
**ERG Code (IATA)** : 9L



## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

<b>12881G SomaCount Surfactant - Green</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Health hazard - Skin corrosion or Irritation Health hazard - Serious eye damage or eye irritation
<b>Alcohols, C12-14-secondary, ethoxylated (84133-50-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>EPA TSCA Regulatory Flag</b>	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
<b>Polyethylene glycol (25322-68-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>EPA TSCA Regulatory Flag</b>	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

### 15.2. US State Regulations

Neither this product nor its chemical components appear on any US state lists, or its chemical components are not required to be disclosed

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Date of Preparation or Latest Revision** : 03/09/2021  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

### GHS Full Text Phrases:

Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS US (GHS HazCom)