## SAFETY DATA SHEET



#### Green Earth RTU Restroom Cleaner

### **Section 1. Identification**

Product identifier : Green Earth RTU Restroom Cleaner

Product code : 309

Other means of : Not available.

identification

Product type : Liquid.

#### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** 

Cleaning solutions.

**Uses advised against** 

Not applicable.

Supplier's details : Betco Corporation

1690 Huron Church Road, Suite 169

Windsor ON N9C0AC CA

400 Van Camp Road

Bowling Green, OH 43402 US

www.betco.com 888-462-3826

**Emergency telephone** 

number

: Chemtrec (800) 424-9300 24 hour

### Section 2. Hazard identification

Classification of the substance or mixture

: SERIOUS EYE DAMAGE - Category 1

**GHS label elements** 

Hazard pictograms :



Signal word : Danger

**Hazard statements** : Causes serious eye damage.

**Precautionary statements** 

**Prevention**: Wear eye or face protection: Recommended: splash goggles.

Response : 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.

Storage : Not applicable.

Disposal : Not applicable.

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## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

Ingredient name	Synonyms	% (w/w)	CAS number
urea hydrochloride	Urea, hydrochloride (1:1); Urea, monohydrochloride; urea monohydrochloride; ORGANIC SALT	≥1 - ≤5	506-89-8
Citric acid	1,2,3-Propanetricarboxylic acid, 2-hydroxy-; 2-Hydroxy- 1,2,3-propanetricarboxylic acid; 2-Hydroxypropane-1,2,3-tricarboxylic acid; E 330; β-hydroxytricarballylic acid; ACIDE CITRIQUE; beta-Hydroxytricarballylic acid; CITRIC ACID, ANHYDROUS; 2-hydroxy-1,2,3-propa-netricarboxylic acid; Anhydrous citric acid; Citronensäure; Citiric acid	≥1 - ≤5	77-92-9
D-Glucopyranose, oligomers, decyl octyl glycosides	D-Glucopyranose, oligomeric, decyl octyl glycosides; (C8-10) Alkyl ether of corn sugar; D-Glucopyranose oligomer decyl octyl glycosides; Alkyl (C1-25) glucoside; D-Glucose, decyl octyl ethers, oligomeric; ETHERS, D-GLUCOSE, DECYL OCTYL, OLIGOMERIC; D-Glucopyranose, oligomers, decyl octyl glycosides (NLP); (C8-C10)alkyl ether of corn sugar; D-Glucopyranose, oligomeric, C8-10 glycosides; D-Glucopyranose, oligomeric, decyl octyl glycoside	≥1 - ≤5	68515-73-1

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First-aid measures

#### **Description of necessary first aid measures**

**Eye contact** 

: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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#### Section 4. First-aid measures

#### Skin contact

: Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with 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. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

#### Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Chemical burns must be treated promptly by a physician. 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 damage.

Inhalation
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

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

pain watering redness

Inhalation : No specific data.

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

pain or irritation

redness

blistering may occur

**Ingestion** : Adverse symptoms may include the following:

stomach pains

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

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** 

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 (Section 11)

## Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

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### Section 5. Fire-fighting measures

## Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

## Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide

carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds

## 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.

## Special protective equipment for fire-fighters

: 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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 non-emergency 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 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). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. 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. 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. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.

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## Section 7. Handling and storage

## 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. Separate from alkalis. 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. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

None.

#### **Biological exposure indices**

No exposure indices known.

## Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

## **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.

#### **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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: 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. Recommended: Chemical resistant gloves

#### 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.

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## Section 8. Exposure controls/personal protection

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**Appearance** 

**Physical state** : Liquid.

Color Green. Clear. to Hazy

Odor Citrus

**Odor threshold** : Not available.

pН : 1

**Melting point/freezing point Boiling point, initial boiling** point, and boiling range

: Not available. : Not available.

: Closed cup: Not applicable. **Flash point** 

**Flammability** : Not available. Lower and upper explosion

: Not available.

limit/flammability limit

Vapor pressure

	Va	por Pressure	e at 20°C	Va	por pressur	e at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				
1-methoxy-2-propanol	8.5	1.1				
pin-2(10)-ene	2.05	0.27	OECD 104			
Allyl heptanoate	0.23	0.031				
Linalool	0.2	0.027	OECD 104			
2,6-dimethyloct-7-en-2-ol	0.15	0.02	EU A.4			
2-(2-ethoxyethoxy)ethanol	0.14	0.019				
citronellal	0.12	0.016	EU A.4			
exo-1,7,7-trimethylbicyclo[2.2.1] hept-2-yl acetate	0.11	0.015				
3,7-dimethyloctan-3-ol	0.08	0.011				
alpha-Terpineol	0.049	0.0065				
1-phenylethyl acetate	0.041	0.0055				
3,7-dimethyloct-6-enenitrile	0.04	0.0053				
citral	0.03	0.004				
diphenyl ether	0.02	0.0027				
Ethyl methylphenylglycidate	0.0017	0.00023				
glycerol	0.000075	0.00001		0	0	
Citric acid	0.00000017	0.0000000023				
D-Glucopyranose, oligomers, decyl octyl glycosides	0	0	OECD 104			
geraniol	0	0				

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# Section 9. Physical and chemical properties and safety characteristics

Relative vapor density : Not available.
Relative density : 1.04301
Solubility(ies) :

Media	Result
cold water	Easily soluble
hot water	Easily soluble

Solubility in water : Not available.

Miscible with water : Yes.

Partition coefficient: n-

octanol/water

Auto-ignition temperature

: Not applicable.

Ingredient name	°C	°F N	ethod
citronellal	202	395.6	DIN 51794
2-(2-ethoxyethoxy)ethanol	204	399.2	
citral	225	437	DIN 51794
Linalool	235	455	
1-methoxy-2-propanol	270	518	
3,7-dimethyloct-6-enenitrile	307	584.6	
Ethyl methylphenylglycidate	350 to 360	662 to 680	
3,7-dimethyloctan-3-ol	360	680	DIN 51794
glycerol	370	698	
1-phenylethyl acetate	>450	>842	
diphenyl ether	618	1144.4	
Citric acid	1010	1850	

Decomposition temperature : Not available.

Viscosity : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

## 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 : Attacks many metals producing extremely flammable hydrogen gas which can form

explosive mixtures with air.

Reactive or incompatible with the following materials:

alkalis

Hazardous decomposition

products

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

should not be produced.

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## **Section 11. Toxicological information**

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Citric acid	LD50 Oral	Rat	3 g/kg	-

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Citric acid	Eyes - Severe irritant	Rabbit	-	24 hours 750	-
	Skin - Mild irritant	Rabbit	-	ug 24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	0.5 MI	-

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Routes of entry anticipated: Oral, Dermal, Eyes.

#### Potential acute health effects

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

Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.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 watering redness

Inhalation : No specific data.

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

pain or irritation

redness

blistering may occur

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## **Section 11. Toxicological information**

**Ingestion**: Adverse symptoms may include the following:

stomach pains

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

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

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

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Green Earth RTU Restroom Cleaner urea hydrochloride Citric acid	10344.8	N/A	N/A	N/A	N/A
	500	N/A	N/A	N/A	N/A
	3000	N/A	N/A	N/A	N/A

## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Citric acid	Acute LC50 160000 μg/l Marine water	Crustaceans - Carcinus maenas - Adult	48 hours

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Citric acid	-1.8	-	Low
D-Glucopyranose, oligomers,	-0.07	-	Low
decyl octyl glycosides			

#### **Mobility in soil**

Soil/water partition : Not available. coefficient (Koc)

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## Section 12. Ecological information

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

## 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.

## **Section 14. Transport information**

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

**Additional information** 

**TDG Classification** 

This material is corrosive to aluminum only. Not corrosive to mild steel and skin.

**DOT Classification** : Remarks Exempt under DOT 49 CFR 173.152 (d). This material is corrosive to aluminum only. Not corrosive to mild steel and skin. Exempt under DOT 49 CFR 173.152 (d). This material is corrosive to aluminum only. Not corrosive to mild steel

and skin.

**IMDG** : Limited quantity Yes.

Special provisions LTD QTY

**IATA** : Limited quantity Yes.

Special provisions LTD QTY

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 : Not available. to IMO instruments

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## Section 15. Regulatory information

**Canadian lists** 

Canadian NPRI : None of the components are listed.CEPA Toxic substances : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

**Eurasian Economic Union**: Russian Federation inventory: Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.

Republic of Korea : Not determined.

Taiwan : Not determined.

**Thailand**: At least one component is not listed.

Turkey : Not determined.
United States : Not determined.
Viet Nam : Not determined.

#### Section 16. Other information

**History** 

Date of printing : 2/13/2025 Date of issue/Date of : 2/13/2025

revision

Date of previous issue : No previous validation

Version : 0.01

**Key to abbreviations** : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

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### Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
SERIOUS EYE DAMAGE - Category 1	On basis of test data

**References** : Not available.

Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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.

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