

Safety Data Sheet

Bottled GreenTeck Solution (1000 ppm)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier: Mixtures

Trade name

GreenTeck Pure Genius

Product Group

Disinfectants

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Industrial and for professional and non-professional use (surface cleaning and sanitisation)

Uses advised against

Any other use outside recommended.

1.3. Details of the supplier of the safety data sheet:

Supplier

Name: GreenTeck Global Ltd.

Address: 2 Moses Winter Way

Wallingford

Oxfordshire

UK

OX10 9FE

E-Mail: will@greenteckglobal.com

1.4. EMERGENCY TELEPHONE NUMBER:

THE NATIONAL FOCUS FOR CHEMICAL INCIDENTS: +44 029 2041 6388

NATIONAL CHEMICAL EMERGENCY CENTRE: +44 01235 463060

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS] : Not classified

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS] : No labelling applicable

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

Hypochlorous acid: 0.095% to 0.105%

CAS No: 7790-92-3

(Active Chlorine released from hypochlorous acid)

Sodium Chloride: 0.345% to 0.355%

CAS No: 7647-14-5

Acetic Acid: 0.39% to 0.41%

CAS No: 64-19-7

Water: >99.13%

CAS No: 7732-18-5

3.2. Mixtures

Description of the mixture

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

Hazardous ingredients

None

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation

If discomfort develops, remove from further exposure and allow to breathe fresh air. Obtain medical attention if any discomfort continues.

Following skin contact

Rinse area with water. Non-sensitising.

Following eye contact

If discomfort develops, flush eyes with plenty of water and remove contact lenses. Obtain medical attention if irritation continues.

Following ingestion

None required.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Not flammable or explosive.

5.3. Advice for fire-fighters

No additional information available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate non-emergency personnel.

6.2. Environmental precautions

If allowed by the local environmental regulatory, spills can be washed to sewer with plenty of water.

6.3. Methods and material for containment and cleaning up

Mop up / absorb with inert material (cloth, paper towel, etc.). Cleaning materials may be disposed of as normal refuse.

6.4. Reference to other sections

See also section 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective gloves recommended. Wash hands after working with product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a closed, opaque container. Keep in a cool, well ventilated place, keep the container closed when not in use. The product is designed for immediate usage or short term storage under specific conditions based on user instructions. Prolonged storage reduces the cleaning and disinfection abilities.

Incompatible products : Strong acids or products containing ammonia (development of hazardous gases), hydrogen peroxide.

Incompatible materials : Direct sunlight, UV light, heat.

Storage temperature : 5-30°C.

7.3. Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limit available.

8.2. Exposure controls

Eye/Face protection : Protective goggles recommended for normal use. Protective goggles recommended if spraying product.

Skin protection : Protective rubber or nitrile gloves recommended to be worn while handling product

Respiratory protection : Not needed for normal use. It is recommended to avoid breathing droplets created by spraying

Thermal hazards : None.

Environmental exposure controls : None.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Appearance:	Clear Solution
Colour:	Colourless
Odour:	Slight chlorine odour
Odour threshold:	Not available
pH:	5.5 – 7.0
Melting point/freezing point:	0° C / - 2° C
Initial boiling point and boiling range:	100° C
Solid/gas flammability:	Not applicable
Upper/lower flammability or explosive limits:	Not applicable
Vapour density:	Not available
Flash point:	Not applicable
Evaporation rate:	Not available
Vapour pressure:	20 - 25 hPa (20° C)
Relative density:	1.0 – 1.01 g/mL
Solubility in water:	Completely soluble
Solubility in oil:	Not soluble
Partition coefficient (n-octanol/water):	Not available
Auto-ignition temperature:	Not applicable
Viscosity:	Not available
Ignition temperature:	Not applicable

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions. See section 10.3.

10.2. Chemical stability

Stable under normal conditions. Sunlight and high temperatures degrade the active chlorine content. Product label contains shelf life information.

10.3. Possibility of hazardous reactions

Do not mix with strong acids or strong bases. Chlorine gas may be released in the presence of strong acid. Chloramine gas may be released in the presence of ammonia.

10.4. Conditions to avoid

Direct sunlight, extremely high and low temperatures.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Sodium chloride – CAS: 7647-14-5

Term	Endpoint	Value	Species	Reference
Acute oral toxicity	LD50	3,550 mg/kg	Rat	ECHA
Acute dermal toxicity	LD50	>10,000 mg/kg	Rabbit	ECHA
Acute inhalative toxicity (vapour)	LD50	>42 mg/L/1h	Rat	ECHA

Skin irritation rabbit result: Slightly to not irritant (ECHA).

Eye irritation result: No data available.

Sensitisation mouse test: Not sensitizing (ECHA).

Human experience result: Negative (ECHA).

Germ cell mutagenicity: Genotoxicity in vitro Ames test. Result: negative (ECHA).

SECTION 12: Ecological information

12.1. Toxicity

No additional information available.

12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

No additional information available.

12.4. Mobility in soil

Hypochlorite as an inorganic substance with an infinite water solubility and very low partitioning coefficients should be considered to be mobile in soil and sediment.

12.5. Results of PBT and vPvB assessment

Sodium chloride is an inorganic salt, which will dissociate into its respective ionic species for which no further biological oxidation is possible. Hypochlorous acid will partially dissociate into its respective ionic species for which no further biological oxidation is possible. Therefore neither of the substances are PBT / vPvB.

12.6. Other adverse effects:

None.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose in a safe manner in accordance with local and national regulations. All packaging may be recycled.

SECTION 14: Transport information

14.1. In accordance with ADR / RID / IMDG / IATA / ADN

UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable

14.2. Special precautions from user

Overland transport:	Not applicable
Transport by sea:	Not applicable
Air transport:	Not applicable
Inland waterway transport:	Not applicable
Rail transport:	Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

The product is not classified as dangerous according to EU-directive 1272/2008.

Regulation (EC) No 648/2004 on detergents

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer – classified as not ozone-depleting.

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of $\geq 0.1\%$ (w/w).

Occupational restrictions

Take note of Dir 94/33/EC and 92/85/EEC on the protection of young people and pregnant workers.

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment was not carried out.

SECTION 16: Other information

16.1. Abbreviations and acronyms

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

16.2. Key literature references and sources for data

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

ECHA – European Chemicals Agency

ECOTOX Knowledge Base

16.3. Relevant R-, H- and EUH-phrases

None.

16.4. Training advice

Provide adequate information, instruction and training for operators.

16.5. Further information

The product contains no volatile organic compounds.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.