

## MATERIAL DATA SAFETY SHEET

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards

### SECTION I - PRODUCT IDENTIFICATION

REVISION DATE: 12/1/2013

Product Name: CLEAN THE GREEN

Chemical Name: N/A

Synonyms: CLEAN THE GREEN

Trade Name: **CLEAN THE GREEN**

Product use: Antifungal solution

Distributor's Name: CHRISTRIO

Distributor's Address: 2420 Railroad; Corona, CA. 92881

Information Contact: 1 951 808 4730

Emergency Phone: Canada & US (800) 535-5053 International: 1-352-323-3500

EU Address: 167-171 Willoughby Lane; Tottenham, London N17 0SB; UK

### SECTION II - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

This information may be based on finding related or similar materials

- Flammable liquid and vapor
- Aspiration hazard if swallowed
- Can enter lungs and cause damage
- Dangerous for the environment
- May cause eye and skin irritation
- May cause respiratory tract irritation

#### Potential Health Effects, Signs, and Symptoms of Exposure:

|                        |  |
|------------------------|--|
| Primary Route of Entry | Inhalation, skin contact, eye contact  |
| Eye                    | Exposure causes eye irritation. Symptoms include stinging, tearing, redness and swelling.  |
| Skin                   | Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking, and skin burns.   |
| Ingestion              | Causes gastrointestinal irritation with nausea, vomiting and diarrhea. Aspiration of material into the lungs may cause chemical pneumonitis, which may be fatal. May cause agitation, delirium, convulsions, and muscle spasms.  |
| Inhalation             | Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Causes respiratory tract irritation. Aspiration may lead to pulmonary edema. Vapors may cause dizziness or suffocation.   |
| Sub-Chronic Effects    | Prolonged or repeated skin contact may cause dermatitis. Effects may be delayed. Chronic exposure may cause thyroid damage with thyroid enlargement, a decrease in metabolic rate, the symptoms of hypothyroidism, and reduction in the protein-bound fraction of the serum iodine and in the thyroxin content of the thyroid gland. May cause skins rashes, occasionally an exfoliated dermatitis occurs and may prove fatal. |

NOTE: Refer to Section XI, Toxicological Information for Details

### SECTION III - COMPOSITION/INFORMSTION

| Chemical Identity | CAS#      | EINEC#    | INCI Name         | Exposure<br>OSHA<br>TWA/STEL | LIMITS<br>ACGIH<br>TWA/STEL | Carcinogen | %   |
|-------------------|-----------|-----------|-------------------|------------------------------|-----------------------------|------------|-----|
| n-Heptane         | 142-82-5  | 205-563-8 | Heptane           | 500ppm                       | 400ppm                      | No/no/no   | ≥40 |
| Ethyl Acetate     | 141-78-6  | 205-500-4 | Ethyl Acetate     | 400ppm                       | 400ppm                      | NOT LISTED | ≤40 |
| Isopropyl Alcohol | 67-63-0   | 200-661-7 | Isopropyl Alcohol | 400ppm                       | 400ppm                      | 3/no/no    | <20 |
| Tolnaftate        | 2398-96-1 | 21-266-6  | Tolnaftate        | N/DA                         | N/DA                        | Not Listed | <1  |

#### See Section XVI for Risk and Safety Phrase

N/E - None Established

N/DA - No Data Available

N/R - Not Review

N/A - Not Applicable

**n-Heptane:** Hazard Symbol - Xn, F, N

Risk Phrases - R11, R38, R50/53, R65, R67

Safety Phrases - S2, S9, S16, S29, S33, S60, S61, S62

**Ethyl Acetate:** Hazard Symbol: F, Xi

Risk Phrases: R11, R36, R66, R67

Safety Phrases: S2, S16, S26, S33

**Isopropyl Alcohol:** Hazard Symbol - F, Xi

Risk Phrases - R11, R36, R67

Safety Phrases - S2, S7, S16, S24/25, S26

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### SECTION IV - FIRST AID MEASURES

|                          |  |
|--------------------------|--|
| First Aid for Eye        | If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention. |
| First Aid for Skin       | Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention.  |
| First Aid for Inhalation | Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, seek medical attention.  |
| First Aid for Ingestion  | Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Possible aspiration hazard. Get medical aid immediately.  |

### SECTION V - FIRE FIGHTING MEASURES

| Flash Point<br>(°F/°C) | Flammable Limit<br>(vol %) | Auto-Ignition Temperature<br>(vol %) |
|------------------------|----------------------------|--------------------------------------|
| TAG CLOSED 40°F/4.44°C | 400PPM                     | N/DA                                 |

**Method:**

|                             |   |
|-----------------------------|---|
| Extinguishing Media:        | Foam, dry chemical, cold water spray.   |
| Fire Fighting Instructions: | Cool fire exposed containers with water, remove away from building. Use self-contained breathing apparatus to fight fire.                     |
| Unusual Hazards:            | When exposed to heat and flame, material is a fire explosion hazard. It may produce toxic products CO, Carbon dioxide and oxides of nitrogen. |

### SECTION VI - ACCIDENTAL RELEASE MEASURES

|                             |   |
|-----------------------------|---|
| Spill or Release Procedures | Eliminate all sources of heat and ignition. Use absorbent material for spills and dike it, wash spill material into retaining containers. Place containers in a well-ventilated area. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as sawdust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802. EU Regulations require the consultation of Directive 98/24/EC. If a leak or spill has not ignited, use water spray to disperse the vapors, to |
|-----------------------------|---|

### SECTION VII - HANDLING AND STORAGE

|                  |   |
|------------------|---|
| Handling         | Wash thoroughly after handling. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Avoid contact with heat, sparks, and flame. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks, or open flames. Use only with adequate ventilation. Avoid breathing vapor. |
| Storage          | Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in well-ventilated area. Store @ 70°F+/- 15°F, allow some air space above liquid level. Keep containers closed while not in use.  |
| Explosion Hazard | Vapors are heavier than air and may travel along the ground or may be move by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  |

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**Engineering Controls** Facilities storing or utilizing this material should be equipped with an eye facility and safety shower. Use process enclosures local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. IDLH for: CAS# 142-82-5: 750 ppm (NIOSH)  
CAS# 141-78-6: 10% lower explosive limit  
CAS#: 67-63-0: 10% lower explosive limit

### Personal Protective Equipment

**General** To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132), or European Standard EN166 be conducted before using this product. Provide eye wash stations and safety showers. Wear impervious clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.

**Eye/Face Protection** Use impermeable clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.

**Skin Protection** Wear resistant gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**Respiratory Protection** A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain limited circumstances, where airborne concentrations are expected to exceed exposure limits. Protection provided by nuisance level organic vapor dust masks can be used, however the use of the respirator is limited. Follow OSHA respirator regulations found in 29

### SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

| Appearance   | Odor & Odor Theshold | pH  | Specific Gravity | Viscosity | % Volatile  |
|--------------|----------------------|-----|------------------|-----------|-------------|
| Clear liquid | Fruity ester odor    | N/A | (H2O=1) : 0.98   | N/DA      | W/W % : 99+ |

| Boiling Point/Freezing Point | Decomposition Temperature | Octanol/Water Partitioning Coefficient | Vapor Pressure | Vapor Density | Evaporation Rate | Ignition | Solution In Water |
|------------------------------|---------------------------|--|----------------|---------------|------------------|----------|-------------------|
| 170°F(77°C)                  | N/A                       | N/A                                    | N/A            | (Air=1): 1    | N/D              | N/D      | N/A               |

| Flash point (°F/°C)    | Flammable Limit (Vol %) | Auto-ignition Temperature (Vol %) |
|------------------------|-------------------------|-----------------------------------|
| TAG CLOSED 40°F/4.44°C | 400ppm                  | N/DA                              |

|  |   |
|--|---|
| <b>Stability:</b><br>Stable  | <b>Incompatibility (Materials to Avoid):</b><br>Avoid oxidizing agents, acids, & bases (heat) |
| <b>Hazardous Decomposition Products:</b><br>Heated material produce NO2 , CO2 , CO | <b>Hazardous Polymerization:</b><br>Will not occur  |

**Conditions to Avoid:**  
Heat, flame, ignition sources.

| Acute Oral Toxicity   | Acute Dermal Toxicity  | Acute Inhalation Toxicity  | Irritation - Skin | Irritation - Eye |
|---|--|--|-------------------|------------------|
| Oral, rat: LD50<br>CAS# 141-78-6 = 5620 mg/kg<br>CAS#67-63-0 = 5045 mg/kg | Skin, rabbit: LD50<br>CAS#141-78-6=>20 MI/kg<br>CAS#67-63-0= 12800 mg/kg | Inhalation, rat: LC50<br>CAS#142-82-5= 103 gm/m3/4H<br>CAS#141-78-6= 200 gm/m3 | Mild              | Mild             |

| Sensitization  | Mutagenicity   | Sub-chronic Toxicity |
|----------------|--|----------------------|
| N/DA           | CAS#: 141-78-6=Hamster fibroblast, 9 g/L sex chromosome loss/non disjunction: S .cerevisiae, 24400 ppm | N/DA                 |
| <b>RTECS#:</b> | CAS#142-82-5, MI7700000<br>CAS#141-78-6, AH5425000<br>CAS#67-63-0, unlisted                            |                      |

### SECTION XII - Ecological Information

| Acute Toxicity To Fish   | Acute Toxicity To Ivertebrates | Acute Toxicity To Algea | Bioconcentration | Toxicity to Sewage Bacterials |
|--|--------------------------------|-------------------------|------------------|-------------------------------|
| CAS#:142-82-5=Goldfish LC50 = 4.0 mg/L24H<br>CAS#:141-78-6=Flathead minnow:<br>LC50=230mg/L96H<br>CAS#:67-3-0= Flathead ninnow:<br>LC50=100mg/L96H | N/DA                           | N/DA                    | N/DA             | N/DA                          |

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### SECTION XII - Ecological Information cont.

|                               |   |
|-------------------------------|---|
| <b>Biodegradability</b>       | The substance is toxic to aquatic organisms. In the food chain important to humans, bioaccumulation takes place, specifically in fish. No other information available |
| <b>Chemical Oxygen Demand</b> | N/DA  |

To the best of our knowledge, the ecotoxicological and chemical fate properties have not been investigated. DO NOT allow to entering drinking water supplies, wastewater, or soil.

### SECTION XIII- DISPOSAL CONSIDERATIONS

Dispose of diking materials and absorbent in compliance with State, Local, and Federal regulations. Residual vapors may explode on ignition; do not cut, drill, or weld on or near the container. Mix with compatible chemical which is less flammable and incinerate. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements. For EU Member States, please refer to any relevant Community provisions relating to waste. In their absence, it is useful to remind the user that national or regional provisions may be in force.

### SECTION XIV - TRANSPORT INFORMATION

|   |  |
|---|--|
| <b>DOT (49 CFR 172) (GND)</b>               |  |
| Proper Shipping Name                        | UN1993, Flammable liquids, n.o.s., (acetone, ethyl acetate), 3, PGII |
| Identification                              | UN1993   |
| Marine Pollutant                            | No   |
| Special Provisions                          | T8, T31  |
| <b>Emergency Response Guidebook (ERG) #</b> | 128  |
| <b>IATA (DGR) (AIR)</b>                     |  |
| Proper Shipping Name                        | UN1993, Flammable liquids, n.o.s., (acetone, ethyl acetate), 3, PGII |
| Class or Division                           | 3  |
| UN or ID Number                             | UN1993   |
| Packing Instructions                        | None   |
| <b>Emergency Response Guidance(ICA0)#</b>   | 3L   |
| <b>IMO (IMDG)</b>                           |  |
| Proper Shipping Name                        | UN1993, Flammable liquids, n.o.s., (acetone, ethyl acetate), 3, PGII |
| Class or Division                           | 3.2  |
| UN or ID Number                             | UN1993   |
| Special Provision & Stowage/Segregation     | None   |
| <b>Emergency Schedule (EmS)#</b>            | 3-07   |
| <b>Other Information</b>                    | Flash point =4.44 deg C  |

### SECTION XV - REGULATORY INFORMATION

|                                     |   |
|-------------------------------------|---|
| Clean Air Act: HAP/ODS              | This product contains the following hazardous air pollutants (HAP's),<br>NONE<br>This product contains no ODS's (ozone depleting substance) as defined by the U.S Clean Air Act.  |
| Clean Water Act: Priority Pollutant | This product contains the following chemicals listed under the U. S. Clean Water Act Priority Pollutant and Hazardous Substance List:<br>NONE   |
| FDA: Food Packing Status            | This product has not been cleared by the <b>FDA</b> for use in food packaging and/or other application as an indirect food packaging additive.  |
| Occupational Safety and Health Act  | This product is considered to be hazardous under the OSHA Hazard Communication Standard. Its hazard are:<br>Immediate (acute) health hazard<br>· Chronic (delayed) health hazard<br>· Fire hazard   |
| RCRA                                | This product contains the following chemicals considered to be hazardous waste under RCRA (40 CFR 261):<br>· Ethyl Acetate CAS# 141-78-6, RCRA Code U112<br>· Acetone, CAS# 67-64-1, RCRA Codes U002<br>May contain Characteristic of Ignitability: RCRA Code: D001                                   |
| SARA Title III: Section 302 (TPQ)   | This product contains chemicals regulated under Section 302-304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List):<br>· Acetone, CAS# 67-64-1, RQ(lbs.): 5,000<br>· Ethyl Acetate CAS# 141-78-6, RQ(lbs.): 5000<br>· Isobutyl Acetate CAS# 110-19-0, RQ(lbs.): 5000 |
| SARA Title III: Section 302 (RQ)    | This product contains no chemicals regulated under Section 304 as extremely dangerous chemical for emergency release notification ("CERCLA" List).  |

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### SECTION XV – REGULATORY INFORMATION (Continued)

|                                 |  |
|---------------------------------|--|
| SARA Title III: Section 311-312 | This product is considered to be hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370). Its hazards are:<br>· Immediate (acute) health hazard<br>· Chronic (delayed) health hazard<br>· Fire hazard |
| SARA Title III: Section 313     | This product contains the following chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:<br>· Acetone, CAS# 67-63-0                    |
| TSCA Section 8(b): Inventory:   | This product contains chemicals listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements.   |
| TSCA Significant New Use Rule   | None of the chemicals this material have a SNUR under TSCA.  |

### State Regulation

|   |  |
|---|--|
| CA Right-to-Know Law<br>California No Significant risk Rule | Ethyl Acetate CAS 141-78-6; Heptane CAS #142-82-5 Isopropyl Alcohol CAS 67-63-0.<br>NONE   |
| MA Right-to-Know Law  | Ethyl Acetate CAS 141-78-6; Heptane CAS #142-82-5 Isopropyl Alcohol CAS 67-63-0.   |
| NJ Right-to-Know  | Ethyl Acetate CAS 141-78-6; Heptane CAS #142-82-5 Isopropyl Alcohol CAS 67-63-0.   |
| PA Right-to-Know Law  | Ethyl Acetate CAS 141-78-6; Heptane CAS #142-82-5 Isopropyl Alcohol CAS 67-63-0.   |
| FL Right-to-Know Law  | Ethyl Acetate CAS 141-78-6; Heptane CAS #142-82-5 Isopropyl Alcohol CAS 67-63-0.   |
| MN Right-to-Know Law  | Ethyl Acetate CAS 141-78-6; Heptane CAS #142-82-5 Isopropyl Alcohol CAS 67-63-0.   |
|   |  |
|   |  |
| CDSL: Canadian Inventory<br>(on Canadian Transitional List) | Heptane CAS# 142-82-5 is on the DSL List. WHMIS = B2, D2B<br>Ethyl Acetate CAS# 141-78-6 is on the DSL List. WHMIS = B2, D2B<br>Isobutyl alcohol CAS# 67-63-0 is on the DSL List. WHMIS = B2, D2B<br>N,N-dimethyl-p-toluidine DSL regulatory status: Included, WHMIS: n/da |

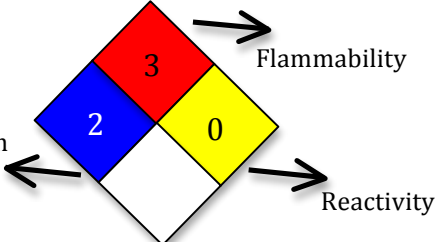

|                     |   |
|---------------------|---|
| European Community: | <b>CLEAN THE GREEN</b><br>· HAZARD SYMBOLS: <b>Xi</b> : Irritant, <b>F</b> : Highly Flammable <b>N</b> : Dangerous for Environment<br>· RISK PHRASES: <b>R11</b> : highly, <b>R36/37/38</b> : Irritating to eyes, respiratory system, and skin, <b>R51/53</b> : toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment . <b>R65</b> : Harmful may cause lung damage if swallowed, <b>R67</b> : Vapours may cause drowsiness and dizziness· <b>SAFETY PHRASES</b> : <b>S7/9</b> : Keep container tightly closed and in a well-ventilated place, <b>S16</b> keep away from sources of ignition-no smoking, <b>S33</b> Take precautionary measures against static discharges, <b>S33</b> : Take precautionary measures against static discharges, <b>S36/37</b> : Wear suitable protective clothing and gloves, <b>S38</b> : in case of insufficient ventilation, wear suitable respiratory equipment, <b>S46</b> : If swallowed seek medical advice immediately and show this container or label. |
|---------------------|---|

### SECTION XVI – OTHER INFORMATION

#### EU Class and Risk/Safety Phrases for Referenced Ingredients (See Section 2):

|   |
|---|
| <b>Hazard Symbol:</b><br>Xi – Irritants; F – Flammable substance or preparation   |
| <b>Risk Phrases:</b><br>R11 Highly flammable; R36 Irritating to eyes; R66 Repeated exposure may cause skin dryness or cracking; R67 Vapors may cause drowsiness and dizziness |
| <b>Safety Phrases:</b><br>S2 Keep out of the reach of children; S9 Keep container in a well-ventilated place; S16 Keep away from sources of ignition – No smoking;            |

#### Hazard Rating system (Pictograms)

|   |   |
|---|---|
| <b>NFPA:</b><br> | <b>HMIS:</b><br> |
|---|---|

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### SECTION XVI - OTHER INFORMATION (continued)

N/E - Not Establish    N/R - No Review    N/DA - No Data Available    N/A - Not Applicable  
 OSHA PEL for nuisance dust 15mg/m<sup>3</sup> (total dust) 5mg/m<sup>3</sup> (Respirable dust)  
 ACGIH PEL for nuisance dust 10mg/m<sup>3</sup>

|                    |                            |
|--------------------|----------------------------|
| Prepared By:       | CHRISTRIO                  |
| Update Composition | Dec. 1 <sup>st</sup> ,2013 |

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