# MATERIAL SAFETY DATA SHEET

## Section 1. IDENTIFICATION

Product Identifier

| | |
|---|---|
| Product Name | CHROMAKEY GREEN |
| Recommended Use | Paint |
| Recommended Restrictions | None Known. |

Manufacturer

| | |
|---|---|
| Company Name | Ticonderoga Ventures, Inc |
| Address | 228 Park Avenue #32435<br>New York, NY 10003 |
| Telephone | 1-212-722-1744 |
| Emergency Telephone Number: | Call Chemtrec at 1-800-424-9300 |

## Section 2. HAZARDS IDENTIFICATION

**HMIS Codes**

| | |
|---|---|
| Health | **1*** |
| Flammability | 0 |
| Reactivity | 0 |

**PHYSICAL STATE** Liquid

**ROUTES OF EXPOSURE** INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE** EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

None generally recognized.

**CANCER INFORMATION**

(See Section 11)

## Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS Number | Weight % |
|---|---|---|
| Polyethylene glycol | 25322-68-3 | < 0.05 |
| Aluminum Hydroxide | 21645-51-2 | < 0.03 |
| Talc, Magnesium silicate hydrate | 14807-96-6 | < 0.02 |
| Barium sulfate | 7727-43-7 | < 0.1 |
| C.I. Pigment Green | 1328-53-6 | < 0.1 |
| Limestone | 1317-65-3 | < 0.1 |
| Quartz | 14808-60-7 | 0.2 |
| Cristobalite | 314464-46-1 | 3 |
| Kaolin | 21332-58-7 | 2 |
| Mica | 512001-26-2 | 5 |
| Titanium Dioxide | 1913463-67 | 19 |

## Section 4. FIRST AID MEASURES

First Aid Measures:

| | |
|---|---|
| Eye Contact | Rinse thoroughly with copious amounts of water, for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. |
| Skin Contact | If skin irritation occurs, vigorously wash affected area with soap and water. If skin irritation or rash occurs: Get medical advice/attention.<br><br>Remove contaminated clothing and launder before re-use. |
| Inhalation | If affected, remove from exposure to a fresh air environment. Restore breathing. Keep warm and quiet. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed. |
| Ingestion | Do NOT induce vomiting Get medical attention immediately. Rinse mouth with water. Never give anything by mouth to an unconscious individual. |

Most Important Symptoms and effects:

| | |
|---|---|
| Symptoms | Direct contact with eyes may cause temporary irritation.<br>Do NOT ingest. |

## Section 5. FIRE-FIGHTING MEASURES

Flammability Classification: Not Applicable

Suitable Extinguishing Media: Carbon Dioxide, Dry Chemical, Alcohol Foam

Unsuitable Extinguishing Media: Not determined.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Protective Equipment and Precautions for Firefighters:

As in any fire, wear self-contained breathing apparatus and other protective clothing (approved or equivalent) and full protective gear.

## Section 6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

Personal Precautions, Protective Equipment and Emergency Procedures:

Personal Precautions: Use personal protective equipment as required. Keep unnecessary personnel away.

Methods and Material for Containment and Cleaning Up:

Methods for Containment: Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up: Keep in suitable, closed containers for disposal.

## Section 7. HANDLING AND STORAGE

Storage Category: Not Applicable

Precautions for Safe Handling:

Advice on Safe Handling: Avoid breathing vapors or mists. Contaminated work-clothing should not be allowed out of the workplace.

Precautions To Be Taken In Handling And Storage:

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children

Conditions for Safe Storage, including any Incompatibilities:

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.
Do not store near heat, sparks, or open flames.
KEEP OUT OF REACH OF CHILDREN.

Incompatible Materials: None known based on information supplied.

## Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

| Chemical Name | ACGIH TLV | OSHA PEL |
|---|---|---|
| Quartz (CAS 14808-60-7) | 0.025 mg/m3 as Resp. Dust | 0.1 mg/m3 as Resp. Dust |
| Cristobalite (CAS 14464-46-1) | 0.025 mg/m3 as Resp. Dust | 0.05 mg/m3 as Resp. Dust |
| Kaolin (CAS 1332-58-7) | 2 mg/m3 as Resp. Dust | 10 mg/m3 Total Dust<br>5 mg/m3 Respirable Fraction |
| Mica (CAS 12001-26-2) | 3 mg/m3 as Resp. Dust | 3 mg/m3 as Resp. Dust |
| Barium sulfate (CAS 7727-43-7) | 10 mg/m3 | 15 mg/m3 as Resp. Dust<br>5 mg/m3 Respirable fraction |
| Talc, Magnesium silicate hydrate | 1 mg/m3 as Resp. Dust | 20 mppcf |
| Titanium dioxide (CAS 19 13463-67-7 ) | 10 mg/m3 as Resp. Dust | 15 mg/m3 as Resp. Dust<br>5 mg/m3 Respirable Fraction |

PRECAUTIONS TO BE TAKEN IN USE

Appropriate Engineering Controls:

Engineering Controls: Apply technical measures to comply with the occupational exposure limits.

Eye/Face Protection: Avoid contact with eyes. Goggles are recommended.

Skin and Body Protection: Water proof gloves are recommended. Clothing to protect the skin is recommended.
No protective equipment is needed under normal use conditions.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.
Wash exposed areas thoroughly before eating, drinking, smoking or leaving work area. Launder contaminated clothing before reusing.

Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in this section) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in this section, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in this section is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

Ensure adequate ventilation, especially in confined areas.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in this section.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in this section.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

| | | | |
|---|---|---|---|
| Physical State: | Liquid. | Odor: | Mild. |
| Appearance: | Viscous liquid. | Odor Threshold: | Not available. |
| Color: | Green. | | |

| Property | Values |
|---|---|
| pH | N/A |
| Product Weight | 11.86 lb/gal (1420 g/l) |
| Specific Gravity | 1.43 |
| Boiling Point | 212 - 213 °F (100 - 100 °C) |
| Melting Point | Not Available |
| Volatile Volume | 61% |
| Evaporation Rate | Slower Than Ether |
| Vapor Density | Heavier Than Air |
| Solubility In Water | N.A. |
| Ph | 9.2 |

Volatile Organic Compounds (VOC Theoretical - As Packaged) 0.39 lb/gal (47 g/l ) Less Water and Federally Exempt Solvents
0.16 lb/gal (19 g/l) Emitted VOC

## Section 10. STABILITY AND REACTIVITY

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| | |
|---|---|
| Reactivity: | Not reactive under normal conditions. |
| Chemical Stability: | Stable under recommended storage conditions. |
| Possibility of Hazardous Reactions: | None under normal processing. |
| Conditions to Avoid: | Keep out of reach of children. |
| Incompatible Materials: | None known. |
| Hazardous Decomposition Products: | By fire: Oxides of carbon. (ex: Carbon Dioxide, Carbon Monoxide) |
| Hazardous Polymerization: | Will not occur. |

## Section 11. TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer. IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

Component Information:

| CAS # | Chemical Name | Oral LD50 | Inhalation LC50 |
|---|---|---|---|
| 14808-60-7 | Quartz | Not Available | Not Available (4HR) |
| 14464-46-1 | Cristobalite | Not Available | Not Available (4HR) |
| 1332-58-7 | Kaolin | Not Available | Not Available (4HR) |
| 12001-26-2 | Mica | Not Available | Not Available (4HR) |
| 13463-67-7 | Titanium Dioxide | Not Available | Not Available (4HR) |

Additional Data:

**Titanium dioxide (13463-67-7)**:

Skin: Skin - Rabbit; Standard Draize test. : 300 ug/3D; (Intermittent) mild. (RTECS)
Ingestion: Ingestion - Rat TDLo: 60 gm/kg; Gastrointestinal - Hypermotility, diarrhea Gastrointestinal - Other changes. (RTECS)
Chronic Effects: Causes damage to organs through prolonged or repeated exposure to particulates or powder. Normal application procedures for this product pose no hazard as to the release of respirable titanium dioxide dust.
Carcinogenicity: IARC: Group 2B: Possibly carcinogenic to humans. Based on Inhalation studies in rats exposed to fine or ultrafine particles (dust) of titanium dioxide.

**Polyethylene glycol (25322-68-3) :**
Eye: Administration into the eye - Rabbit Standard Draize test: 500 mg/24H [Mild]
Administration into the eye - Rabbit Standard Draize test: 100 uL [Mild]
Administration into the eye - Rabbit Standard Draize test: 500 mg [Mild] (RTECS)
Skin: Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: >20 mL/kg [Details of toxic effects not reported other than lethal dose value]
Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: >20 gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
Ingestion:
Oral - Rat LD50 - Lethal dose, 50 percent kill: 28 gm/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 31640 mg/kg [Kidney/Ureter/Bladder - Other changes]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 27500 mg/kg [Kidney/Ureter/Bladder - Other changes]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 22 gm/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 30200 mg/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 600 mg/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 30 gm/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 32 gm/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 1054 mg/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 51310 mg/kg [Kidney/Ureter/Bladder - Other changes]
Oral - Rat LD50 - Lethal dose, 50 percent kill: >4 gm/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 44200 mg/kg [Kidney/Ureter/Bladder - Other changes]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 51200 mg/kg [Kidney/Ureter/Bladder - Other changes]

Oral - Rat LD50 - Lethal dose, 50 percent kill: 45 gm/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 50 gm/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50 - Lethal dose, 50 percent kill: >50 gm/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 50 gm/kg [Kidney/Ureter/Bladder - Other changes]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 31600 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

## Section 12. ECOLOGICAL INFORMATION

Ecotoxicological Information: No data available.

## Section 13. DISPOSAL CONSIDERATIONS

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste Treatment Method:

Disposal / Incineration: Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## Section 14. TRANSPORT INFORMATION

US GROUND DOT: Not Regulated for Transportation.

CANADA (TDG): Not Regulated for Transportation.

IMO: Not Regulated for Transportation.

## Section 15. REGULATORY INFORMATION

SARA 313 SUPPLIER NOTIFICATION.

| CAS No. | CHEMICAL/COMPOUND | % by WT | % Element |
|---|---|---|---|

No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

**CALIFORNIA PROPOSITION 65**
**WARNING**: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## Section 16. OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Issue Date: 1St January 2019
Revision Date: 26th January 2019

End of Safety Data Sheet