

MATERIAL SAFETY DATA SHEET

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

Product name: Smart Green Graffiti Remover
Bio-Degradable – Environmentally Friendly
EnviroKleen™ certified



Chemical family: Mixture of Sodium Hydroxide, Solvent base and Surfactants.
Product use: Removal of paint & graffiti from masonry, brick and concrete surfaces.
Shake Well Before Use. Use as directed only.
Product Description: Brown liquid with slight red tint, characteristic solvent odor.

Emergency Tel.#: CHEM-TEL – North America 1-800- 255-3924 or Worldwide Intl. + 01- 813-248-0585

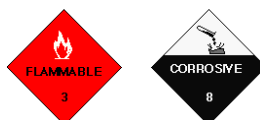
SECTION 2 — HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PERSONAL PROTECTIVE EQUIPMENT



DOT SYMBOLS



HMIS RATINGS

HEALTH:	2
FLAMMABILITY:	3
PHYSICAL HAZARD:	2

Danger! Flammable and corrosive liquid and vapor.

Contents may ignite when exposed to heat, sparks, flame and other ignition sources. Causes severe skin, eye and digestive tract burns. Harmful if swallowed. Product may enter lungs following ingestion and cause damage. Cause respiratory tract irritation. Could cause headache, drowsiness or other effects to the central nervous system. Contains material which may cause adverse liver and kidney effects. Possible developmental hazard. Contains material that may adversely affect the developing fetus. Flammable liquid; may ignite if exposed to heat, flame or other ignition source. Not reactive.

POTENTIAL HEALTH EFFECTS

Target organs: Eyes, skin, respiratory system, digestive system, liver, kidneys, central nervous system.

Routes of exposure: Skin contact, skin absorption, eye contact, inhalation, ingestion.

Signs and symptoms of short-term (acute) exposure:

Inhalation: Harmful if inhaled. Inhalation may cause severe irritation and corrosive damage to the nose, throat and upper respiratory tract. Inhalation could also cause dizziness, headache, drowsiness, nausea, vomiting and other central nervous system effects. In more severe cases, could cause pulmonary edema (fluid accumulation in lungs).

Skin: Direct contact with skin may cause corrosive burns, deep ulceration and possibly permanent scarring. Burns may not be immediately painful. Product may be absorbed.

Eyes: Direct contact with eyes may cause severe burns, ulceration and possibly permanent blindness. Vapors are irritating to the eyes.

Ingestion: If ingested, may cause severe irritation and corrosive damage to the mouth, throat and stomach, as well as adverse central nervous system effects. Symptoms may include dizziness, headache, drowsiness, nausea, vomiting, a severe burning sensation, abdominal pain, perforation of the intestinal tract and possibly death. This product may present an aspiration hazard; aspiration into the lungs following ingestion may cause life-threatening pulmonary edema or chemical pneumonitis.

Chronic effects: Repeated or prolonged exposure to low levels may result in drying, cracking and defatting of the skin (dermatitis). Prolonged or repeated inhalation exposure may cause adverse liver, kidney and nervous system effects.

Carcinogenic status: See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards: Possible birth defect hazard. For further information, see Section 11.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	% w/w
Ethanol IMS	64-17-5	10-30%
Acetone	67-64-1	10-30%
Organic Solvent Base	Proprietary	10-30%
Sodium Hydroxide	1310-73-2	5-10%
Surfactant	Proprietary	5-10%

NOTE (1): ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2004 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).

SECTION 4 — FIRST AID MEASURES

Inhalation: If inhaled, immediately remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention if adverse effect continues after removal to fresh air.

Skin contact: Immediately remove contaminated clothing and shoes. Wash skin thoroughly with mild soap and running water. Obtain medical attention if irritation persists. Launder clothing before reuse.

Eye contact: Immediately flush eyes with running water for a minimum of 15 minutes. Obtain medical attention immediately.

Ingestion: DO NOT induce vomiting. Give 1-2 glasses of water if victim is able to swallow. Never give anything by mouth to an unconscious person. Obtain medical attention immediately. Guard against aspiration into the lungs.

Conditions aggravated by exposure: May aggravate pre-existing skin, eye and respiratory problems.

Recommendations to physicians: Treat symptoms and eliminate overexposure.

SECTION 5 — FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability: Flammable liquid. This material will ignite or explode when exposed to heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment). Vapors are heavier than air and will collect in low-lying areas and confined spaces. Vapors can travel to a source of ignition and flash back causing an explosion and fire. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Liquid will float and can be re-ignited at water's surface. Contact with some metals may cause release of flammable hydrogen gas.

Flammability classification (OSHA 29 CFR 1910.1200): Class IB Flammable Liquid.

Flash point: 12 °C / 54 °F

Auto-ignition temperature: Not determined for product: For Ethanol: 363 °C / 685 °F, Acetone: 465 °C / 869 °F

Oxidizing properties: None known

Lower flammable limit (% by vol.): 3.3% (ethanol), 2.5% (acetone)

Upper flammable limit (% by vol.): 19.0% (ethanol), 12.8% (acetone)

Explosion data:

Product is insensitive to normal mechanical impacts. Product is potentially sensitive to static discharge: vapors may be sensitive to discharge. Avoid static discharge by grounding containers and transfer equipment.

Suitable extinguishing media: Foam, water fog, water spray, water stream, dry chemical or carbon dioxide. **Water may be used to cool containers in order to prevent rupture and release of flammable contents.**

Special fire-fighting procedures/equipment: Firefighters should wear proper chemically protective equipment and respiratory protection as conditions warrant. Move containers from fire area if it can be done without risk. Water spray, stream or fog may be useful in minimizing or dispersing vapors, and cooling equipment and containers exposed to heat and flame. Avoid spreading burning liquid with water spray used for cooling purposes; water fog may be preferable for this purpose.

Hazardous combustion products: Carbon oxides and other irritating fumes and smoke.



SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions: Spillages may be very slippery. Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions: Ensure spilled product and wash solution does not enter sewers or confined spaces.

Spill response/Cleanup: Eliminate all sources of ignition. Ventilate area of release. Stop leak if you can do so without risk. Use non-sparking tools. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand, earth), then place absorbent material into a suitable container for later disposal (see Section 13). Wash site of spillage thoroughly with water and suitable detergent; rinse may be discharged into sewer system. Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

Prohibited materials: None known.

Special spill response procedures: If a spill/release in excess of EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).

DOT/CERCLA Reportable quantity (RQ): Acetone (RQ 5000 lbs.), Sodium Hydroxide (RQ 1000 lbs.)

SECTION 7 — HANDLING AND STORAGE

Safe handling procedures: This material is a flammable, corrosive liquid. Wear chemically protective equipment during handling. Use in a well-ventilated area. Avoid inhalation of vapors. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep away from heat, flame, sparks, or ignition sources. Ground all equipment during handling. Keep away from acids and other incompatible materials. Use caution when opening cap. **Keep container tightly closed when not in use.** Assume empty containers contain residues, which are hazardous.

General hygiene considerations: Avoid inhalation of vapors and mists. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when working. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Contaminated leather and shoes may require disposal.

Storage requirements: Store in a cool, dry, well-ventilated area away from sources of heat, ignition and sunlight. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Containers should be separated from oxidizing materials by a minimum distance of 20 ft. or by a barrier of non-combustible material at least 5 ft. high having a fire-resistance rating of at least 0.5 hours. Refer to NFPA 30, *Flammable and Combustible Liquids Code*, for additional information on storage. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area. Keep containers tightly closed at all times.

Special packaging materials: Store product in either original container or in containers made of same material; consult with manufacturer for proper containers. Do not store product in glass or metal containers or in pressure washers or sprayers

SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and engineering controls: Local mechanical exhaust / extraction ventilation is recommended if used indoors on a continuous basis. Use explosion-proof, flame resistant construction materials. Do not use aluminium, tin, zinc, galvanized iron, glass or wood products.

Exposure Limits:

CHEMICAL NAME	CAS #	EXPOSURE LIMITS
Ethanol IMS	64-17-5	ACIGH TLV = 1800ppm, NIOSH REL=1900 ppm, OSHA PEL=1900 ppm, NIOSH IDLH = 3000 ppm based on 10% of LEL. DFG data – 900 ppm MAK, PEAK = 1800 ppm 15 min. average value, 1-hr interval, 4 per shift, DFG MAK Pregnancy Risk Classification: C DFG MAK Germ Cell Mutagen Category: 5
Acetone	67-64-1	ACIGH TLV = 500ppm / STEL=750ppm, NIOSH REL=250 ppm (590 mg/m ³), OSHA PEL=1000 ppm (2400 mg/m ³), NIOSH IDLH = 3000 ppm based on 10% of LEL. DFG data = 500 ppm (1200 mg/m ³)MAK, DFG MAK Pregnancy Risk Classification: D DFG MAK Germ Cell Mutagen Category: 5
Organic Solvent Base	Proprietary	50 ppm per Manufacturer - None Established per ACGIH, NIOSH, OSHA, or DFG.
Sodium Hydroxide	1310-73-2	ACIGH TLV = 2 mg/m ³ Ceiling, NIOSH REL=2 mg/m ³ Ceiling, OSHA PEL=2 mg/m ³ , NIOSH IDLH = 10 mg/m ³ .
Surfactant	Proprietary	None Established

SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION (Continued)

Respiratory protection: Respiratory protection is required if airborne concentrations are above recommended TLVs or are not known. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134) or equivalent U.S. State standards, and the Canadian CSA Standard Z94.4-02, *Selection, Care and Use of Respirators*. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, in emergency situations or when oxygen levels are unknown, use of a fitted full-facepiece pressure/demand SCBA or a fitted full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998).

Hand protection: It is recommended that protective gloves impervious to the material be worn at all times during use. Use triple gloves for spill response. If necessary, refer to U.S. OSHA 29 CFR 1910.138 and appropriate standards of Canada.

Eye / face protection: Use chemical splash goggles when a potential for eye contact exists. A full face shield should be worn when handling more than 1 gallon of product. If necessary, refer to U.S. OSHA 29 CFR 1910.133, the Canadian CSA Standard Z94.3-02, *Industrial Eye and Face Protection*. An eyewash station and safety shower should be made available in the immediate working area.

Skin protection and other protective equipment: Use body protection appropriate for task. An apron or other impermeable body protection is suggested. Full-body chemical protective clothing is recommended for emergency response procedures. If necessary, refer to the OSHA Technical Manual (Section VII: Personal Protective Equipment), or appropriate Standards of Canada. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136 and the Canadian CSA Standard Z195-02, *Protective Footwear*. An eyewash station and safety shower should be made available in the immediate working area.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical state, odor and appearance: Brown liquid with reddish tint, characteristic solvent odor.

Specific gravity: Approx. 0.9

Solubility in water: Miscible with water.

Volatiles (% by weight): 30%. (per California Air Resources Board methods)

Vapor pressure (PSIG): Not established.

Vapor density (Air = 1): >1

Boiling point: 172.4°F (78°C) (references ethanol)

Freezing point: Not established.

Evaporation rate (n-Butyl acetate = 1): Not established.

pH: 14 (very alkaline)

Flash point: 12.5°C / 55°F

SECTION 10 — REACTIVITY AND STABILITY DATA

Stability and reactivity: Stable under the recommended storage and handling conditions prescribed. Contact with aluminium, tin, zinc or galvanized iron may liberate flammable hydrogen gas. Product may absorb Carbon dioxide from the air.

Hazardous polymerization: Will not occur.

Conditions to avoid: Avoid sources of heat, flame, static discharge and direct sunlight.

Materials to avoid (incompatibles): Acids, strong oxidizing agents, ammonium compounds.

Hazardous decomposition products: *Combustion:* carbon oxides, sodium carbonate. *Hydrolysis:* None known. Refer to Section 5 for additional 'Hazardous combustion products'.

SECTION 11 — TOXICOLOGICAL INFORMATION

Toxicological data: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data for components in 1% concentration or greater. Additional data is available but is not presented in this MSDS. Contact Manufacturer for more information. See next page for tabulated information.

SECTION 11 — TOXICOLOGICAL INFORMATION (Continued)

Ingredients	LC ₅₀ (4hr) inhalation, rat	LD ₅₀ (mg/kg) oral, rat	LD ₅₀ (mg/kg) dermal, rabbit
Ethanol IMS (data references ethanol 100%)	20,000 ppm / 10 hrs.	7060	Not available.
Acetone	50,100 mg/m ³ / 8 hrs.	5800	>9,400 µL/kg (guinea pig)
Organic Solvent Base	Not available.	>2000	>2000 (rat)
Sodium Hydroxide	Not available.	273	Not available.
Surfactant	Not available.	Not available.	Not available.

Carcinogenicity: Components of this product are listed by agencies tracking the carcinogenic potential of chemical compounds, as follows:

Ethanol: ACGIH TLV-A4 (Not Classifiable as a Human Carcinogen); MAK-5 (Substances with carcinogenic and genotoxic effects, the potency of which is considered to be so low that, provided the MAK and BAT values are observed, no significant contribution to human cancer is to be expected.)

None of the remaining ingredients listed are classified by IARC, ACGIH, NTP, MAK, EPA, NIOSH or OSHA as carcinogenic.

Reproductive effects, Teratogenicity, Mutagenicity: This product contains Ethanol, which is a known human reproductive toxin when ingested as alcoholic beverages. No reproductive effects have been reported following Ethanol exposure in the workplace. It is known to cause mutations to germ cells and somatic cells in animals. In addition, this material causes embryotoxicity, fetotoxicity and teratogenicity in animals, in the presence of maternal toxicity. Also, this product contains Acetone, which has been reported to cause premature menstruation in women exposed to 1000ppm for 7.5 hours; teratogenicity is shown in animal offspring, but only in concentrations that also produced maternal harm.

Sensitization to material: None known. **Synergistic materials:** Not available.

Other important hazards: CNS depression may result from exposure.

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicological information: Expected biodegradation should exceed 70% within 7days of discharge, and 90% within 28 days. Dilute product (as in post-use wash) is safe to discharge into sewer systems or bodies of water in moderate quantities as would be expected during normal usage and cleanup operations. In addition, product contains no Priority Pollutants as defined and/or listed under the Clean Air Act and Clean Water Act. For additional information, contact ChemTel Inc. at 813-248-0573.

SECTION 13 — DISPOSAL CONSIDERATIONS

Handling for disposal: Handle according to recommendations listed in Section 7.

Methods of disposal: Do not discharge concentrated solutions into sewage systems or bodies of water; dilute product as seen in post-use cleanup is acceptable for discharge in moderate quantities into sewer systems and bodies of water. Dispose of concentrated waste product in accordance with all applicable federal, state and local regulations. Contact your local, state or federal environmental agency for specific rules and requirements..

RCRA: For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 — TRANSPORTATION INFORMATION

U.S. DOT transportation regulation information: This product is classified as Dangerous Goods under regulations of the U.S. DOT, 49 CFR as follows:

Proper Shipping Name: **Flammable Liquids, Corrosive, n.o.s. (Ethanol, Acetone, Sodium Hydroxide)**

Note: *Quart and pint containers are considered ORM-D under 49CFR173.150.*

Hazard Class- Primary: **3 (Flammable)**

Secondary: **8 (Corrosive)**

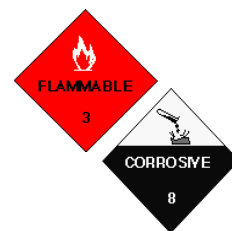
Identification No. : **UN 2924**

Packing Group: **II**

Hazard Labels: **Class 3 (Flammable); Class 8 (Corrosive)**

RQ LBS: **1000 lb (Sodium hydroxide), 5000 lb (Acetone)**

Marine Pollutant: **None**



Special Transportation Notes: This material may be shipped by ground within the United States in limited quantities under the heading of Other Regulated Materials – D (ORM-D). Refer to 49 CFR Part 173.202 for appropriate packaging information when shipping in non-bulk containers.

SECTION 14 — TRANSPORTATION INFORMATION (Continued)

Transport Canada transportation regulation information: This product is classified as Dangerous Goods, per regulations of Transport Canada. The use of the above U.S. DOT information from the U.S. 49 CFR regulations is allowed for shipments that originate in the U.S. For shipments via ground vehicle or rail that originate in Canada, the following information is applicable

Proper Shipping Name: **Flammable Liquids, Corrosive, n.o.s. (Ethanol, Acetone, Sodium Hydroxide)**
 Hazard Class Number and Description: **3 (Flammable), 8 (Corrosive)**
 UN Identification Number: **UN 2924**
 Packing Group: **II**
 Hazard Label(S) Required: **Class 3 (Flammable); Class 8 (Corrosive)**
 Special Provisions: **16**
 Explosive Limit & Limited Quantity Index: **0.5**
 ERAP Index: **None**
 Passenger Carrying Ship Index: **None**
 Passenger Carrying Road or Rail Vehicle Index: **1**
 Marine Pollutant: **None**



SECTION 15 — REGULATORY INFORMATION

U.S. FEDERAL REGULATION INFORMATION:

TSCA information: All ingredients are listed on the TSCA inventory.

DOT/CERCLA Reportable Quantity (RQ): Acetone = 5000 lb (2270 kg), Sodium hydroxide = 1000 lb (454 kg)

SARA TITLE III:

Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present.

Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute); Delayed (Chronic); Fire. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to TSCA notification requirements, since it does not contain any Toxic Chemical constituents.

California Proposition 65: The Ethanol component is on the Proposition 65 chemical lists; however, this listing is specifically related to alcoholic beverages and is not applicable to industrial exposure of this material.

State Right-to-Know Laws: This preparation contains components that are on the Right-to-Know Lists of several states. The following table contains the components list and the States that list the component on their Right-to-Know Lists. Any state not listed follows the OSHA list of the US Federal Government.

CHEMICAL NAME	STATES REQUIRING NOTIFICATION
Ethanol IMS (data references ethanol 100%)	CA, NJ, PA, MN, MA
Acetone	CA, NJ, PA, MN, MA
Organic Solvent Base	None
Sodium Hydroxide	CA, NJ, PA, MN, MA
Surfactant	None

SECTION 15 — REGULATORY INFORMATION (Continued)

CANADIAN FEDERAL REGULATION INFORMATION:

Canadian DSL/NDSL Inventory status: Components of this product are listed on the DSL Inventory.

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists: No component of this product is on the CEPA Priorities Substances Lists.

Canadian WHMIS classification and symbols:

Class E: Corrosive

Class B2: Flammable Liquid

Class D2A, D2B: Material Causing Other Toxic Effects (Toxicity-Irritation)



SECTION 16 — OTHER INFORMATION

Legend: ACGIH: American Conference of Governmental Industrial Hygienists
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 NIOSH: National Institute of Occupational Safety and Health
 CAS: Chemical Abstract Services
 DOT: Department of Transportation
 IARC: International Agency for Research on Cancer
 N/Av: not applicable
 OSHA: Occupational Safety and Health Administration
 RCRA: Resource Conservation and Recovery Act
 SARA: Superfund Amendments & Reauthorization Act
 TSCA: Toxic Substance Control Act
 RTECS: Registry of Toxic Effects of Chemical Substances
 HSDB: Hazardous Substances Data Bank
 CFR: Code of Federal Regulations
 EPA: Environmental Protection Agency
 MST: Mountain Standard Time
 N/Av: not available
 NTP: National Toxicology Program
 PEL: Permissible Exposure Limit
 TLV: Threshold Limit Values
 TWA: Time Weighted Average

Disclaimer:

The information in this MSDS was obtained from sources we believe are reliable. We believe the information was accurate at the time it was compiled. However, no warranty, express or implied, including, without limitation, any warranty of **fitness for a particular purpose or merchantability**, is made as to the accuracy, reliability or completeness of this information, and all such warranties are disclaimed. The conditions of storing, handling and use being beyond the manufacturer's control, it is the sole responsibility of the user to determine all appropriate precautions for the safe handling and use of this product. The information contained herein pertains only to this product and not to its use in combination with any other materials. It is the user's responsibility to comply with all applicable federal, state, and local laws. Manufacturer disclaims all liability for incidental or consequential damages arising out of or in connection with the use of, or inability to use, this product. The use of the EnviroKleen symbol and certification is granted through the certification process and post-assessment agreement with Chemtel Inc., Tampa, FL, 33602, and is restricted to this product only when used as directed. All other uses of the EnviroKleen name and logo are prohibited.



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