

Material Safety Data Sheet

VIVX®

Company and Contact Information		
CAF, LLC PO Box 1121 Maple Valley, WA 98038 (425) 433-8277	24-Hour Emergency Number: (800) 255-3924 CHEMTEL Contract Number: MIS0006822 Date Prepared: August 2, 2012 Date Revised: August 2, 2012	Reorder Hotline: (425) 433-8277 email: msds@mycaf.com

Identification – Section I	HMIS Rating	
Product Name: VIVX® Graffiti Remover	0-Minimal 1-Slight 2- Moderate 3- Serious 4-Extreme	
Product Number: 705105576657	HEALTH	2
Product Type: AEROSOL	FLAMMABILITY	3
Formula: Proprietary	PHYSICAL HAZARD	0
Supplier's Name: CAF, LLC	PERSONAL PROTECTION	B
DOT Ship Description: CONSUMER COMMODITY, ORM-D		

Hazard Identification – Section II
Primary Routes of Exposure: Eye - yes Skin-yes Ingestion-yes Inhalation-yes Other
Signs and Symptoms of Over-exposure:
<p>EYES: May cause moderate to severe eye irritation. Symptoms include stinging, tearing, redness, blurred vision, and swelling of eyes.</p> <p>SKIN: May cause moderate to severe irritation. Frequent or prolonged contact may cause drying and defatting of the skin and possibly dermatitis. Symptoms may include redness, burning, drying and cracking of skin. May aggravate existing skin conditions.</p> <p>INHALATION: Inhalation of mist or vapor can cause irritation of nasal and respiratory passages accompanied by dizziness, nausea, and headache. Repeated or prolonged exposure can cause abdominal pain, reduced heart and breathing rates, low blood pressure and may cause damage to the blood, lungs, liver, and kidneys along with other central nervous system effects, including coma or even death.</p> <p>INGESTION: Can cause gastrointestinal irritation, nausea, and vomiting. Aspiration of material into the lungs can cause lung inflammation and other lung injury.</p>

Composition/Information on Ingredients – Section III		
Chemical Name/Common Name:	CAS NO.	PERCENT
Toluene	108-88-3	20-30
Propane	74-98-6	10-15
n-Butane	106-97-8	8-10
Acetone	67-64-1	5-8
2-Butoxyethanol	111-76-2	3-5
Diethylene Glycol Monobutyl Ether	112-34-5	3-5
9-Octadecenoic Acid	112-80-1	1-3
Non-hazardous and other components below reportable levels		20-40

First Aid Measures – Section IV
<p>Eye: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.</p> <p>Skin: Remove and isolate contaminated clothing and shoes. Wash off with warm water and soap. Get medical attention if irritation develops or persists.</p> <p>Ingestion: If material is ingested, immediately contact a poison control center. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.</p> <p>Inhalation: Remove to fresh air. Seek medical attention immediately. If breathing stops give artificial respiration.</p>

Fire-Fighting Measures – Section V	
Flash Point (Concentrate): 0° F (TCC)	Flammability (as per CSMA Flame Projection Test): Extremely Flammable Spray
Extinguishing Media: Water fog, Foam, Dry chemical, Carbon dioxide (CO2)	
Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers to prevent rupturing.	
Unusual Fire and Explosion Hazards: Exposure to temperature above 120° F may cause bursting.	

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Protective equipment and precautions for firefighters: In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

Accidental Release Measures – Section VI

Methods for containment Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up Should not be released into the environment. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. Maintain local exhaust and adequate ventilation. No smoking. Keep sparks, heat sources and open flame far away from spill or leak. Wash area to prevent slipping. Dispose of soaked absorbent material in accordance with Federal, State and local laws.

Handling and Storage – Section VII

KEEP OUT OF REACH OF CHILDREN. For industrial and institutional use only. Store in a cool, dry area away from heat or open flame. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not get this material in contact with eyes. Do not get this material in contact with skin. Wear personal protective equipment. Avoid prolonged exposure. Do not store at temperatures above 120° F. NFPA Code 30B Rating: Level 2 Aerosol. Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat, sparks, and flame. Avoid exposure to long periods of sunlight. Store in cool place. Keep in an area equipped with sprinklers.

Exposure Controls/Personal Protection – Section VIII

ACGIH

Components	CAS#	TWA	STEL	Ceiling
Toluene	1058-88-3	20 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
n-Butane	106-97-8	1000 ppm	Not established	Not established
Acetone	67-64-1	500 ppm	750 ppm	Not established
2-Butoxyethanol	111-76-2	20 ppm	Not established	Not established
Diethylene Glycol Monobutyl Ether	112-34-5	20 ppm	Not established	Not established

OSHA

Components	CAS#	TWA	STEL	Ceiling
Toluene	108-88-3	200 ppm	Not established	300 ppm
Propane	74-98-6	1000 ppm	Not established	Not established
Acetone	67-64-1	1000 ppm	Not established	Not established
2-Butoxyethanol	111-76-2	50 ppm	Not established	Not established
Diethylene Glycol Monobutyl Ether	112-34-5	100 ppm	Not established	Not established

Respiratory Protection	Wear positive pressure self-contained breathing apparatus (SCBA). If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.
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Ventilation	Provide local exhaust to keep air concentrations of ingredients listed in Section 2 below acceptable limits.
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Protective Gloves	Use chemical resistant gloves if hand contact will be made.
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Eye Protection	Always wear safety glasses or chemical proof goggles when working with chemical products.
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Physical and Chemical Properties – Section IX

Aerosol Concentrate:	
Boiling Point: 179.6° F (82.2°C) estimated	Specific Gravity (H ₂ O=1)@70°F: 0.8229 estimated
pH: 12.42-13.42	Solubility in Water: emulsion
Flammability (HOC): 20.727 kJ/g estimated	Flash back: yes
Flash point: -156°F (-104.4°C) propellant	Form: Aerosol

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Pressure: 60-75 psig@70°F	Vapor Density (Air=1): >1
Appearance/Odor: opaque, tan, viscous liquid / citrus solvent odor	

Stability and Reactivity – Section X

Stability: Risk of ignition. Instability caused by elevated temperatures. May form explosive peroxides.	Conditions to avoid: Heat, flames and sparks
Hazardous Decomposition: Irritants. Toxic gas, May include oxides of nitrogen.	

Toxicological Information – Section XI

Acute effects	Acute LD50: 4005 mg/kg estimated, Rat, Dermal	
2-Butoxyethanol	111-76-2	Inhalation LC50 Rat 2.21 mg/L 4 h; Inhalation LC50 Rat 450 ppm 4 h; Oral LD50 Rat 470 mg/kg; Dermal LD50 Rat 2270 mg/kg; Dermal LD50 Rabbit 220 mg/kg
9-Octadecenoic Acid	112-80-1	Oral LD50 Rat 25 g/kg
Acetone	67-64-1	Oral LD50 Rat 5800 mg/kg
Diethylene Glycol Monobutyl Ether	112-34-5	Oral LD50 Rat 3384 mg/kg; Dermal LD50 Rabbit 2700 mg/kg
n-Butane	106-97-8	Inhalation LC50 Rat 658 mg/L 4h
Propane	74-98-6	Inhalation LC50 Rat 658 mg/L 4 h
Toluene	108-88-3	Inhalation LC50 Rat 12.5 mg/L 4 h; Inhalation LC50 Rat >26700 ppm 1h; Oral LD50 Rat 636 mg/kg; Dermal LD50 Rabbit 8390 mg/kg; Dermal LD50 Rat 12124 mg/kg
Sensitization	Not expected to be hazardous by OSHA criteria.	
Teratogenicity	Not expected to be hazardous by OSHA criteria.	

Ecological Information – Section XII

Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State Regulations. Components of this product are hazardous to aquatic life. LC50 91.39 mg/L estimated, Fish, 96.00 Hours, EC50 40.7 mg/L estimated, Daphnia, 48.00 Hours, IC50 11587 mg/L estimated, Algae, 72.00 Hours,

Disposal Considerations – Section XIII


Waste Disposal Method: Contents under pressure. Dispose of this material and its container at hazardous or special waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Aerosol cans, when emptied and depressurized through normal use, pose no disposal hazard and should be recycled. Dispose in accordance with all applicable regulations. Consult Federal, State and local authorities for approved procedures.
Waste Codes: D001: Waste Flammable material with a flash point <140 F, D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel], D018: Waste Benzene

Transport Information – Section XIV

<p>Department of Transportation (DOT) Requirements</p> <p><u>Basic shipping requirements:</u> Proper shipping name - Consumer commodity Hazard class – ORM-D Subsidiary hazard class - None</p> <p><u>Additional information:</u> Packaging exceptions – 156, 306 Packaging non bulk – 156, 306 Packaging bulk - none</p> <p>IMDG</p> <p>Basic shipping requirements: Proper shipping name – Aerosols Hazard class – 2.1 UN number 1950</p> <p><u>Additional information:</u> Packaging exceptions – LTD Qty</p>	
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Item – 5F Labels required – None Transport category – 2	
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Regulatory Information – Section XV

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200	
U.S. - CERCLA/SARA - Section 313 - Emission Reporting		
2-Butoxyethanol	111-76-2	1.0 % de minimis concentration (applies to R-(OCH ₂ CH ₂) _n -OR', where n = 1,2, or 3, R=alkyl C7 or less, or R = phenyl or alkyl substituted phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate, Chemical Category N230)
Diethylene Glycol Monobutyl Ether	112-34-5	1.0 % de minimis concentration (applies to R-(OCH ₂ CH ₂) _n -OR', where n = 1,2, or 3, R=alkyl C7 or less, or R = phenyl or alkyl substituted phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate, Chemical Category N230)
Toluene	108-88-3	1.0 % de minimis concentration
Occupational Safety and Health Administration (OSHA)		
29 CFR 1910.1200 hazardous chemical	Yes	
CERCLA (Superfund) reportable quantity	Toluene: 100,000 Acetone: 5,000,000	
Superfund Amendments and Reauthorization Act of 1986 (SARA)		
Hazard categories	Immediate Hazard	Yes
	Delayed Hazard	Yes
	Fire Hazard	Yes
	Pressure Hazard	Yes
	Reactivity Hazard	No
Section 302 extremely hazardous substance	No	
Section 311 hazardous chemical	Yes	
Inventory status		
Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country (s)		
State regulations	WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.	
U.S. - Pennsylvania - RTK (Right to Know) List		
2-Butoxyethanol	111-76-2	Present
9-Octadecenoic Acid	112-80-1	Present
Acetone	67-64-1	Environmental hazard
Diethylene Glycol Monobutyl Ether	112-34-5	Environmental hazard
n-Butane	106-97-8	Present
Propane	74-98-6	Present
Toluene	108-88-3	Environmental hazard

Other Information – Section XVI

Further information HMIS® is a registered trade and service mark of the NPCA. HMIS® ratings Health: 2*

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Flammability: 3

Physical hazard: 0

Disclaimer: The information contained herein is based on data available and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.