

# MATERIAL SAFETY DATA SHEET

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## I-PRODUCT IDENTIFICATION

### VANDALEX GL

PRODUCT CODE: #255

CHEMICAL FORMULATION: GEL VANDAL MARK REMOVER FOR VERTICAL SURFACES

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: FLAMMABILITY: REACTIVITY:

HAZARD RATING: 4- Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

## II - HAZARDOUS INGREDIENTS

Hazardous Components (Specific Chemical Identity; Common Name (s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits	
				Recommended	% optional
1. METHYLENE CHLORIDE*	75-09-02	500ppm	50ppm		5-10%
2. TOLUENE*	108-88-3	200ppm	100ppm		15-25%
3. ETHANOL	64-17-5	1000ppm	1000ppm		
4. ETHYLENE GLYCOL MONOBUTYL ETHER*	111-76-2	50ppm	25ppm		5-10%
5. DIETHYLENE GLYCOL MONOETHYL ETHER*	111-90-0	N/E	N/E		10-20%
6. PROPANE	74-98-6	1000ppm	1000ppm		
7. ISOBUTANE	75-28-5	N/E	800ppm		

\*SARA 313 INFORMATION:

Subject to the reporting and supplier notification of SARA 313.

\*RQ #1 1000 lbs - #2 1000 lbs. - #4 N/A - #5 N/A

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling Level STEL: Short Term Exposure Limit

N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No

302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).

355: SARA TITLE III/ List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).

372: SARA TITLE III/ List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

## III - PHYSICAL DATA

BOILING POINT (C/F): N/A	MELTING POINT: N/A
VAPOR PRESSURE (mm Hg.)Psig 55 psig	SPECIFIC GRAVITY (WATER = 1): 0.88
VAPOR DENSITY (AIR = 1): >1	% VOLATILE BY VOLUME N/A
SOLUBILITY IN WATER: EMULSIFIABLE	EVAPORATION RATE (Water = 1): <1
	pH: N/A
APPEARANCE AND ODOR: WATER WHITE GEL - SWEET ETHERAL ODOR	

## IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (F/(C)): N/A

(TEST METHOD):

FLAMMABLE LIMITS:

UPPER: N/E LOWER: N/E

EXTINGUISHING MEDIA: CO2, STANDARD FOAM, DRY CHEMICAL, HALON.

SPECIAL FIRE FIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARD: EXPOSURE TO TEMPERATURES OVER 120 DEGREES F MAY CAUSE BURSTING OR VENTING. HEAT OF FIRE MAY CAUSE HAZARDOUS FUMES: CARBON MONOXIDE, PHOSGENE IINE AND HYDROGEN CHLORIDE

## V - REACTIVITY DATA

STABILITY:	STABLE
INCOMPATIBILITY:	OXIDIZING MATERIALS
CONDITIONS TO AVOID:	POSSIBLY SODIUM, POTASSIUM, AND MAGNESIUM
HAZARDOUS DECOMPOSITION OR BYPRODUCTS:	OPEN FLAMES CAN CAUSE THERMAL DEGRADATIC WITH THE EVOLUTION OF HYDROGEN CHLORIDE PHOSGENE AND CHLORINE
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR
CONDITIONS TO AVOID:	SOURCES OF HEAT

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## VI - HEALTH AND HAZARD DATA

ROUTES OF ENTRY: INHALATION? SKIN? INGESTION?

HEALTH HAZARDS (ACUTE & CHRONIC):

THRESHOLD LIMIT VALUE: N/E

OSHA & ACGIH: NOT REGULATED

**CARCINOGENICITY:** NIP, IARC: OVEREXPOSURE TO METHYLENE CHLORIDE CAN RAISE THE LEVEL OF CARBON MONOXIDE CAUSING CARDIOVASCULAR STRESS. METHYLENE CHLORIDE IS LISTED AS A POTENTIAL CARCINOGEN (2b) BY IARC. RESULTS OF LABORATORY ANIMAL TESTS SHOW THAT METHYLENE CHLORIDE PRODUCED: BENIGN TUMORS IN RATS EXPOSED TO 500ppm; CANCER IN RATS AND MICE EXPOSED TO 1500ppm AND HIGHER, BUT NOT IN HAMSTERS. IT INCREASED THE RATE OF SPONTANEOUSLY OCCURRING MALIGNANT TUMORS IN THE B6C3F1 MOUSE. EPIDEMIOLOGY STUDIES FAILED TO SHOW A TUMORIGENIC RESPONSE IN PLANT WORKERS. METHYLENE CHLORIDE IS NOT BELIEVED TO POSE A MEASURABLE CANCER RISK TO MAN WHEN HANDLED AS A LOW DEGREE OF MATERNAL AND EMBRYOTOXICITY AT 4500ppm, NO TERATOLOGICAL EFFECTS AND NO EFFECTS ON REPRODUCTION AT CONCENTRATIONS OF 4500 AND 1225ppm.

OVEREXPOSURE TO METHYLENE CHLORIDE HAS APPARENTLY BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN LABORATORY ANIMALS; LIVER ABNORMALITIES, LUNG DAMAGE.

### EFFECTS OF OVEREXPOSURE

**IF IN EYES:** MODERATE TO SEVERE IRRITATION

**IF ON SKIN:** IRRITATION DUE TO DEFATTING OF TISSUE

**IF SWALLOWED:** NAUSEA, HEADACHE, VOMITING

**IF INHALED:** NAUSEA, DIZZINESS, COORDINATION IMPAIRMENT ON LONG EXPOSURE

### EMERGENCY AND FIRST AID PROCEDURES

**IF IN EYES:** FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES AND GET MEDICAL ATTENTION.

**IF ON SKIN:** WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION

**IF SWALLOWED:** DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION

**IF INHALED:** REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

## VII - SPILL AND LEAK PROTECTION

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** SMALL SPILLS: MOP UP, SOAK UP IMMEDIATELY. REMOVE TO OUT OF DOORS. LARGE SPILLS: EVACUATE AREA. KEEP OUT OF WATER SUPPLY

**WASTE DISPOSAL METHOD:** DISPOSE OF IN A MANNER APPROVED BY LOCAL, STATE, AND FEDERAL REGULATIONS AS WELL AS EPA STANDARDS

## VIII - SPECIAL PROTECTION INFORMATION

**VENTILATION:** GENERAL VENTILATION RECOMMENDED TO MAINTAIN THE LEVEL OF THE HAZARDOUS INGREDIENTS TO LESS THAN HALF OF THE TLV.

**RESPIRATORY PROTECTION:** NOT REQUIRED

**PROTECTIVE GLOVES:** RUBBER GLOVES. FOR SHORT USAGE NONE REQUIRED

**EYE PROTECTION:** SAFETY GOGGLES. FOR SHORT USAGE NONE REQUIRED

**OTHER PROTECTIVE EQUIPMENT:** NONE

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

**OTHER PRECAUTIONS:** KEEP OUT OF REACH OF CHILDREN

**WORK/HYGIENIC PRACTICES :** DO NOT STORE WHERE TEMPERATURES EXCEED 120 DEGREES F.

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