

# MATERIAL SAFETY DATA SHEET

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## SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME : **Green Clean & Etch**  
CHEMICAL FAMILY : Compound, cleaning liquid  
LATEST REVISION DATE : Nov. 2008  
PREPARED BY: Research & Development Dept.

## SECTION II – HAZARDOUS INGREDIENTS & OTHER COMPONENTS

| <u>INGREDIENTS</u>                    | <u>% Weight</u> | <u>EXPOSURE LIMITS</u> |                  | <u>CAS NO.</u> |
|---------------------------------------|-----------------|------------------------|------------------|----------------|
|                                       |                 | <u>OSHA PEL</u>        | <u>ACGIH TLV</u> |                |
| Trade Secret (Contents non-Hazardous) | NA              | NA                     | NA               | NA             |

## SECTION III - PHYSICAL DATA

APPEARANCE / ODOR : Green Color, Mild Vinegar Odor

BOILING POINT : 216 degrees F

PERCENT VOLATILE by weight : > 85 %

EVAPORATION RATE (Water=1) : 1

PHYSICAL FORM: Liquid

SPECIFIC GRAVITY (Water=1) : 1.07

SOLUBILITY IN WATER : Complete

pH: Conc: 1.5-2.0 Use Dilution: 2.0-3.0

## SECTION IV - FIRE AND EXPLOSTION HAZARD DATA

FLAMMABILITY CLASSIFICATION : Non-Flammable

FLAMMABLE LIMITS : LEL : NA UEL : NA

FLASH POINT : NA

SPECIAL FIRE FIGHTING PROCEDURES: Normal Procedures should be employed.

EXTINGUISHING MEDIA : NA

UNUSUAL FIRE AND EXPLOSION HAZARDS : None

## SECTION V – HEALTH HAZARD DATA

**PRIMARY ROUTE(S) OF ENTRY:** INHALATION : YES    DERMAL : NO    INGESTION : NO

**EFFECTS OF OVEREXPOSURE :**

SKIN : Redness, irritation and dermatitis.

EYES : Redness, irritation and tearing and burns.

INHALATION : Nasal and respiratory irritation.

INGESTION : Gastrointestinal irritation, burns in GI tract.

**CARCINOGENICITY :**

NTP : NO

IARC : NO

OSHA : NO

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE :** Pre-existing eye, skin and respiratory disorders.

**EMERGENCY AND FIRST AID PROCEDURES :**

SKIN : Thoroughly with soap and water. Consult Physician if irritation persists.

EYES : Flush immediately with water for 15 minutes. Consult Ophthalmologist if damage occurs.

INHALATION : Move to fresh air. Get medical attention and administer oxygen if irritation persists.

INGESTION : Do not induce vomiting. Dilute with water or milk. Do not give anything by mouth to an unconscious person

## SECTION VI - REACTIVITY DATA

**STABILITY :** Stable    **CONDITIONS TO AVOID :** Oxidizing agents

**HAZARDOUS DECOMPOSITION BY-PRODUCTS :** Carbon Monoxide, Carbon Dioxide

**INCOMPATIBILITY :** Oxidizers

**HAZARDOUS POLYMERIZATION :** Will not occur

## SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED :** Clean-up workers must use protective clothing to prevent body contact. Pick up with wet mop, wet vac or absorbent material. Rinse floor with clear water and allow to dry before allowing traffic.

**WASTE DISPOSAL METHOD :** Dilute with water. Adjust pH with sodium bicarbonate to pH above 6.0, then flush to sanitary sewer. For large spills, incinerate in a furnace where permitted. Always dispose in compliance with federal, state and local laws.

## SECTION VIII – SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION :** None required in normal conditions.

Use NIOSH approved self-contained breathing apparatus if TLV is exceeded.

**VENTILLATION :** Normal room ventilation

**PROTECTIVE GLOVES :** Solvent resistant.

**EYE PROTECTION :** Safety glasses or chemical splash-proof face shield.

**OTHER PROTECTIVE CLOTHING AND EQUIPMENT :** Sufficient to prevent skin contact.

## SECTION IX – SPECIAL PRECAUTIONS

Keep out of reach of children. Avoid contact with skin, eyes or clothing. Avoid prolonged or repeated exposure to vapors. Store at room temperature.

## SECTION X – SUPPLEMENTARY INFORMATION

SARA TITLE III: RATING SCALE: 0 = Minimal; 1 = Slight; 2 = Moderate; 3= Serious; 4= Severe

HMIS CLASSIFICATION: HEALTH : 2 FLAMMABILITY : 0 REACTIVITY : 0

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Periodically, user should request new MSDS to assure it matches current formulation. The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use or misuse are beyond our control, no warranty is made either express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. User should satisfy himself that he has all current data relevant to his particular use.

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