

# MATERIAL SAFETY DATA SHEET

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HAZARD RATINGS (0=Least, 1=Slight, 2=Moderate, 3=High, 4=Severe)

HEALTH = 1  
FIRE = 0  
REACTIVITY = 1  
EQUIPMENT = B

## SECTION I - PRODUCT DESCRIPTION

PRODUCT NAME: **THE NATURAL NON-TOXIC LIME & SCALE REMOVER**  
PRODUCT CODE: **N-31**  
GENERAL DESCRIPTION: Natural citric acid lime & scale remover  
CHEMICAL NATURE: Surfactant

## SECTION II - PRODUCT COMPOSITION (OSHA Listed Potentially Hazardous Ingredients)

Citric acid - < than 25%

## SECTION III - PHYSICAL PROPERTIES

BOILING RANGE: NE  
SPECIFIC GRAVITY: (Water = 1) 1.107  
VAPOR PRESSURE AT 20C: (MM of HG) Equivalent to water  
VAPOR DENSITY: (Air = 1) Equivalent to water  
SOLUBILITY IN WATER: Infinite  
SOLUBILITY IN SOLVENT: Miscible  
EVAPORATION RATE: Equivalent to water  
APPEARANCE: Clear liquid  
ODOR: Oderless  
PH RANGE: 1.5 ± .5

## SECTION IV - FIRE AND EXPLOSION DATA

LOWER FLAMMABILITY LIMITS: (% In Air) Not pertinent  
FLASH POINT: (And Method) Not pertinent  
FLAMMABILITY CLASSIFICATION: Not flammable  
UNUSUAL FIRE/EXPLOSION HAZARDS: None known  
RECOMMENDED EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical powder  
SPECIAL FIRE FIGHTING PROCEDURES: None.

## SECTION V - HEALTH INFORMATION

ACUTE TOXICITY: Non-toxic  
THRESHOLD LIMIT VALUE: No limit known  
EFFECTS OF OVEREXPOSURE: Serious gastric disturbance if ingested in small amounts. May chemically burn to the mouth, esophagus and stomach. This material will cause eye irritation and can cause permanent eye damage. Redness or dehydration may develop on hands and forearms. Dermatitis and skin sensitization can develop after repeated and/or prolonged contact with human skin. Inhalation of spray mists or vapors may be irritation to the lungs and ingestion may cause gastric disturbance. .  
OTHER EFFECTS OF OVER EXPOSURE: None known.

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## NON-TOXIC LIME AND SCALE

### EMERGENCY FIRST AID PROCEDURES:

**EYE CONTACT:** Immediately flush with plenty of water for at least 15 minutes. If irritation persists have eyes examined and treated by medical personnel.

**SKIN CONTACT:** If irritation occurs remove contaminated clothing and footwear. Wash material off the skin with plenty of soap and water. Wash clothing and footwear before reuse.

**INHALATION:** No treatment needed.

**INGESTION:** Drink water or milk to dilute. Induce vomiting only if advised by physician or poison control center. Call poison control center.

### SECTION VI - REACTIVITY DATA

**STABILITY:** Stable under normal conditions

**CONDITIONS TO AVOID:** None known

**INCOMPATIBILITY WITH OTHER MATERIALS:** Alkalis, ammonia, bleach

**HAZARDOUS DECOMPOSITION MATERIALS:** None

**HAZARDOUS POLYMERIZATION:** Will not occur

### SECTION VII - FIRE AND SPILL/LEAK PROCEDURES

**IN CASE OF FIRE:** No special precautions

**PROCEDURES IF MATERIAL IS SPILLED OR RELEASED:** Where possible flush down drain to waste treatment sewer; otherwise on small spills, use chemical absorbent and sweep up. For large spills, contain and collect.

**WASTE DISPOSAL PROCEDURES:** Dispose of this product or its residues in accordance with all local, state and federal requirements.

### SECTION VIII - SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION:** None required for recommended use

**LOCAL EXHAUST:** Normal room ventilation

**PROTECTIVE GLOVES AND CLOTHING:** None required

**EYE PROTECTION:** None required for recommended use. If need is determined use safety glasses or face shield.

**OTHER PROTECTIVE EQUIPMENT:** As determined by or recommended by federal state or local regulations.

### SECTION IX - ADDITIONAL PRECAUTIONS

No additional precautions.

The information herein is presented in good faith and believed to be correct as of the date hereof. However, Clean Environment makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

No representation or warranties, either express or implied, of merchantability, fitness for a particular purpose or of any other nature with respect to the product or to the information herein is made hereunder.

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