

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

Product Name: NuKlean STC      Product Number: GCK154  
CAS Number: Blend

#### Company Identification

NuGeneration Technologies, LLC      [www.nugentec.com](http://www.nugentec.com)  
100 Professional Center Drive Suite 101  
Rohnert Park, CA 94928 USA  
(707) 820-4080 (For product information)  
1-800-424-9300 or 1-202-483-7616 (CHEMTREC) (For emergencies)

SPECIAL NOTES: Highly Alkaline spray (low foaming), cleaner made for high pressure spray applications and agitated tank cleaning.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0% NuKlean STC      CONTAINING:      HAZARDOUS AND/OR REGULATED COMPONENTS

| <u>Chemical Name</u> | <u>Amount</u> | <u>CAS Number</u> |
|----------------------|---------------|-------------------|
| POTASSIUM HYDROXIDE  | < 25.0 %      | 1310-58-3         |

#### NON-HAZARDOUS COMPONENTS

| <u>Chemical Name</u> | <u>Amount</u> | <u>CAS Number</u> |
|----------------------|---------------|-------------------|
| Anionic Surfactants  | < 10.0 %      | Trade Secret      |

(See Section 8 for exposure guidelines)  
(See Section 15 for regulatory information)

COMPOSITION COMMENT:      This product is Biodegradable.

#### HAZARDS DISCLOSURE

This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.  
As defined under Sara 311 and 312, this product contains no known hazardous materials.

MISCELLANEOUS:      Contains Potassium Hydroxide.

### 3. HAZARDS IDENTIFICATION

\*\*\*\*\*      EMERGENCY OVERVIEW      \*\*\*\*\*  
\*      DANGER      \*  
\* CORROSIVE LIQUID. Alkaline Cleaning compound. May \*  
\* cause skin or eye irritation, rash, or burns. \*  
\*\*\*\*\*

#### HMIS Rating:

Health - 2, Flammability - 0, Reactivity - 0, Personal Protection Index - C

#### NFPA Rating:

Health - 2, Flammability - 0, Reactivity - 0, Special Hazards - Corrosive

NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

#### POTENTIAL HEALTH EFFECTS

EYE:      Corrosive, contact causes severe eye burns.

SKIN: Prolonged or repeated contact may cause skin irritation, rash, or burns.

INHALATION:

Avoid breathing vapors or mists. May cause irritation of the upper respiratory passages.

INGESTION: May be harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE:

If exposed areas are flushed promptly and thoroughly with water, there should be little or no harm. Long-term exposure may lead to rash or burn.

CHRONIC EFFECTS:

Prolonged and/or repeated contact may produce mild to moderate skin irritation or inflammation.

CARCINOGENICITY INFORMATION: No known cancer hazards.

MISCELLANEOUS: Solutions extremely slippery when spilled.

#### 4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

SKIN CONTACT FIRST AID:

Immediately wash skin with plenty of soap and water while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

INHALATION FIRST AID:

Not an expected route of exposure.

Remove from area of exposure. Seek immediate medical attention if respiratory irritation or distress continues.

INGESTION FIRST AID:

Get medical attention immediately. Do not induce vomiting.

STATEMENT OF PRACTICAL TREATMENT:

Always have plenty of water available for first aid.

NOTES TO PHYSICIAN: Treat patient symptomatically.

#### 5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Autoignition Temperature: None

COC Flash Point: None TCC Flash Point: None

FLAMMABLE LIMITS IN AIR LEL: None UEL: None

EXTINGUISHING MEDIA: Will not burn.

FIRE & EXPLOSION HAZARDS: Heating above 200°C or in fire conditions toxic decomposition products may be formed.

FIRE FIGHTING INSTRUCTIONS:

Contain runoff water. Contaminated extinguishing water must be disposed of in accordance with applicable regulations.

### 6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Protect skin and eyes from exposure.

LARGE SPILLS PROCEDURE:

Absorb spill with inert material (e g, dry sand or earth), then place in a chemical waste container. Clean up spills immediately, observing precautions in Protective Equipment section. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

SMALL SPILLS PROCEDURE:

Absorb spills with inert material. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

### 7. HANDLING AND STORAGE

RECOMMENDED STORAGE TEMPERATURE

Minimum: 4.4 C (39.9 F)                      Maximum: 48.9 C (120.0 F)

HANDLING (PERSONNEL):            Avoid contact with eyes, skin, and clothing.

HANDLING (PHYSICAL ASPECTS): Keep container closed to avoid contamination.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:            No special ventilation requirements.

EYE / FACE PROTECTION REQUIREMENTS:

When splashing of the material may occur, chemical goggles and a face shield are recommended.

SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contact.

RESPIRATORY PROTECTION REQUIREMENTS:

Under normal use conditions, with adequate ventilation, no special handling equipment is required.

EXPOSURE GUIDELINES:            No Information Available.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid

COLOR: Amber

ODOR: Mild

BOILING POINT: >212 F

SOLUBILITY IN WATER: Complete

SPECIFIC GRAVITY: 1.375 (Water = 1)

BULK DENSITY: 11.47

MELTING/FREEZING POINT: <35 F

PH: 14

% VOLATILES: 0 %

PH @ 5%: 13.2

### 10. STABILITY AND REACTIVITY

STABILITY:                      Stable.

POLYMERIZATION: Hazardous polymerization will not occur.  
INCOMPATIBILITY WITH OTHER MATERIALS: May react with highly acidic materials.  
DECOMPOSITION: Decomposition will not occur if handled and stored properly.  
CONDITIONS TO AVOID:  
This material is safe under normal storage and handling conditions.

### 11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Contact may cause eye irritation.

SKIN EFFECTS: Contact may cause skin irritation.

ACUTE ORAL EFFECTS:  
May cause diarrhea and or vomiting along with tissue burns.

ACUTE INHALATION EFFECTS:  
No know hazards in normal industrial use.

### 12. ECOLOGICAL INFORMATION - No information available.

### 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:  
Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

CONTAMINATED MATERIALS:  
Wash contaminated clothing before reuse.

CONTAINER DISPOSAL:  
Clean out containers prior to disposal.

### 14. TRANSPORTATION INFORMATION

PRODUCT LABEL .....: NuKlean STC  
D.O.T. SHIPPING NAME .....: Corrosive  
TECHNICAL SHIPPING NAME ...: Corrosive Liquid, NOS (potassium hydroxide)  
D.O.T. HAZARD CLASS .....: Corrosive  
UN NUMBER .....: 1760 Corrosive Liquid, NOS  
PRODUCT RQ (LBS) .....: 4,000  
D.O.T. LABEL .....: Corrosive Liquid  
D.O.T. PLACARD .....: #8  
BULK CLASS .....: N/A  
PACKAGE CLASS .....: 55

MISCELLANEOUS:  
Export Classification, organic surface active agents (other than soap), washing preparations and cleaning preparations, schedule B # 3402.90.5030.

### 15. REGULATORY INFORMATION

EEC Symbols and Indications of Danger:  
Corrosive (C)  
R-Phrases:  
R34 - Causes burns.  
S-Phrases:

S24/25 - Avoid contact with skin and eyes.  
WHMIS Hazard Symbols:  
Class E - Corrosive Material  
Canadian Disclosure List  
Potassium Hydroxide (1310-58-3)  
CERCLA Hazardous Substances  
Potassium Hydroxide (1310-58-3) -- RQ 1000 lb

FDA (FOOD AND DRUG ADMINISTRATION):  
This Product Meets FDA/USDA requirements for cleaning in the food processing industry.

MISCELLANEOUS INFORMATION:  
This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS).

### 16. OTHER INFORMATION

PREPARED BY .....: Donato Polignone  
APPROVAL DATE .....: May 31, 2007  
SUPERCEDES DATE ...: April 29, 2003  
PRD NUMBER .....: GCK154 (Official Copy)

REVISION STATEMENT:  
This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

ADDITIONAL INFORMATION:  
The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process.

\*\*\*\*\*  
This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of NuGeneration Technologies, LLC. The data on this sheet are related only to the specific material designated herein. NuGeneration Technologies, LLC assumes no legal responsibility for use or reliance upon these data.

\*\*\*\*\*  
END OF MSDS  
\*\*\*\*\*