

## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

Product Name: AquaKlean EF 105 Product Number: CKA131  
Synonyms: Non-Silicated, non-nitrated multi-metal tank cleaner  
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) email: [info@nugentec.com](mailto:info@nugentec.com)  
1-800-424-9300 or 1-202-483-7616 (CHEMTREC: For emergencies)

#### SPECIAL NOTES:

This product is Biodegradable. This product contains NO Chelates, NO silicates, no nitrites and NO Phosphates.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0% AquaKlean EF 105 CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS

Chemical Name	Amount	CAS Number
ETHYLENE GLYCOL MONOBUTYL ETHER	< 5.0 %	111-76-2
SODIUM NITRITE	< 3.0 %	7632-00-0

#### NON-HAZARDOUS COMPONENTS

Chemical Name	Amount	CAS Number
NONIONIC SURFACTANT BLEND	< 5.0 %	68603-25-8
ANIONIC SURFACTANT	< 5.0 %	27177-77-1

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

#### COMPOSITION COMMENT:

Contains Sodium Nitrite, do not mix with products containing amines.

#### 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.

### 3. HAZARDS IDENTIFICATION

\*\*\*\*\* EMERGENCY OVERVIEW \*\*\*\*\*  
\* CAUTION \*  
\* May cause skin or eye irritation after repeated or \*  
\* prolonged contact. \*  
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HMIS Rating - Health: 1  
Flammability: 0  
Reactivity: 0  
Personal Protection Index: B

NFPA Rating - Health: 1  
Flammability: 0  
Reactivity: 0  
Special Hazard: None

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: Contact may cause eye irritation.  
SKIN: Prolonged or repeated skin contact may cause irritation.  
INHALATION: No known hazards in normal industrial use.  
INGESTION: Ingestion is not considered a potential route of exposure.  
SIGNS AND SYMPTOMS OF EXPOSURE: If exposed areas are flushed promptly and thoroughly with water, there should be little or no harm.  
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: Flush eye with water for 15 minutes. Get medical attention if irritation develops or persists.  
SKIN CONTACT FIRST AID: Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.  
INHALATION FIRST AID: Although this product is not known to cause respiratory problems, if breathing is difficult, remove to fresh air and provide oxygen.  
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: Material will not burn.

#### 6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL): Wear appropriate personal protective equipment.  
INITIAL CONTAINMENT: Contain spilled material.  
LARGE SPILLS PROCEDURE:  
Flush spill area with water to wastewater treatment system. Or absorb spill with inert material (e g, dry sand or earth), then place in a chemical waste container. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.  
SMALL SPILLS PROCEDURE:  
Floor may become slippery. 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)

### SHELF LIFE: (in original, sealed containers)

5 years @ 4.4 C 3 years @ 48.9 C

HANDLING (PERSONNEL): Avoid prolonged contact with skin or eyes.

HANDLING (PHYSICAL ASPECTS): Store in a cool dry area.

STORAGE PRECAUTIONS: Keep from freezing. Keep container closed.

MISCELLANEOUS: Do not stack over three pallets high.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: No special ventilation requirements.

### EYE / FACE PROTECTION REQUIREMENTS:

Where contact with this material is likely, eye protection is recommended.

### SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination.

RESPIRATORY PROTECTION REQUIREMENTS: Under normal use conditions, with adequate ventilation, no special handling equipment is required.

MISCELLANEOUS: Where an apron and protective clothing.

EXPOSURE GUIDELINES: Ethylene glycol monobutyl ether

OSHA TWA: 25 ppm, ACGIH TWA: 25 ppm, Skin Designation: Yes

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM .....: Liquid  
COLOR .....: No color  
ODOR .....: Mild  
BOILING POINT .....: >212 F  
SOLUBILITY IN WATER .....: Complete  
SPECIFIC GRAVITY .....: 1.05 (Water = 1)  
BULK DENSITY .....: 8.8  
MELTING/FREEZING POINT .....: 32 F  
PH .....: 10.5 PH (5% B.V.) .....: 10.2  
% VOLATILES .....: 4 %  
VOLATILE ORGANIC COMPOUNDS (VOC) ...: 40 g/ml

## 10. STABILITY AND REACTIVITY

STABILITY: Stable.

POLYMERIZATION: Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS: None known.

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 slight skin irritation.

ACUTE ORAL EFFECTS: No known hazards in normal industrial use.

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

REPRODUCTION AND BIRTH EFFECTS: There are no known or reported effects on reproductive function or fetal development.

CHRONIC EFFECTS: There are no known or reported effects from repeated exposure.

## 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. Uncleaned empty containers should be disposed of in the same manner as the contents. For additional waste disposal information contact your local NuGenTec representative at (888) 99-NuGen.

CONTAMINATED MATERIALS: Wash contaminated clothing before reuse.

CONTAINER DISPOSAL: Clean out containers prior to disposal.

## 14. TRANSPORTATION INFORMATION

PRODUCT LABEL .....: AquaKlean EF 105

D.O.T. SHIPPING NAME .....: Cleaning Compound

TECHNICAL SHIPPING NAME ...: Class 55

D.O.T. HAZARD CLASS .....: Non-Hazardous

PRODUCT RQ (LBS) .....: 33,333 (sodium Nitrite)

UN NUMBER .....: N/A

D.O.T. LABEL .....: NOBIN Non-Hazardous

D.O.T. PLACARD .....: N/A 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: None

WHMIS Hazard Symbols: None

Canadian Disclosure List: SODIUM NITRITE (7632-00-0)

Ethylene glycol monobutyl ether (111-76-2)

SARA Title III - Section 313: SODIUM NITRITE (7632-00-0)

Ethylene glycol monobutyl ether (111-76-2)

CERCLA Hazardous Substances SODIUM NITRITE (7632-00-0) -- RQ 100 lb

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 29, 2007

SUPERCEDES DATE ...: September 24, 2002

PRD NUMBER .....: CKA131 (Official Copy)

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.

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END OF MSDS

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