



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification Product Name: NuKoat CMZ
Product Number: CPH555 CAS Number: Blend

Company Identification
NuGeneration Technologies, LLC
1155 Park Avenue, Emeryville, CA 94608 USA
Phone (888)996-8436, Fax (877)996-8436 (For product information)
1-800-424-9300 or 1-202-483-7616 (CHEMTREC: For emergencies)

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0% NuKoat CMZ	CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS		
<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>	<u>OSHA pel (TWA)</u>
NITRIC ACID	< 10.0 %	7697-37-2	2 PPM
CALCIUM NITRATE	< 20.0 %	10124-37-5	--
ZINC NITRATE	< 10.0 %	779-88-6	--
ZINC DIHYDROGEN PHOSPHATE	< 20.0 %	10124-37-5	--
AMMONIUM PHOSPHATE	< 5.0 %	10124-37-5	--
PHOSPHORIC ACID	< 5.0 %	10124-37-5	2 PPM
NON-HAZARDOUS INGREDIENTS	Balance	--	--

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

HAZARDS DISCLOSURE: This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. Unidentified ingredients are considered non-hazardous under Federal hazard Communication Standard (29 CFR 1910.1200). As defined under Sara 311 and 312, this product contains materials that are acute hazards.

MISCELLANEOUS: Contains Nitric & Phosphoric Acid.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
DANGER
CORROSIVE LIQUID
May cause burns to Eyes, Skin & Respiratory system.

<u>HMIS Rating</u>	<u>NFPA Rating</u>
Health: 3	Health: 3
Flammability: 0	Flammability: 0
Reactivity: 0	Reactivity: 0
Personal Protection Index: J	Special Hazard: 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: Contact causes severe, even permanent, damage.
SKIN: Contact may cause severe skin irritation and possible burns.
INHALATION: Exposure to high concentrations may cause pneumonitis and pulmonary edema. May also cause burning of bronchial membranes.

INGESTION: Ingestion is not considered a potential route of exposure. May cause diarrhea, nausea, abdominal cramps. If ingested seek prompt medical attention. Corrosive and may cause severe and permanent damage to mouth, throat, and stomach.

SIGNS AND SYMPTOMS OF EXPOSURE: If exposed areas are flushed promptly and thoroughly with water, there should be little or no harm. This product is completely soluble in water.

CARCINOGENICITY INFORMATION: No known cancer hazards per IARC, NTP or OSHA.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID: Flush eye with water for 15 minutes. Contact a physician.

SKIN CONTACT FIRST AID: Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention.

INHALATION FIRST AID: Although this product is not known to cause respiratory problems, if breathing is difficult, remove to fresh air and provide oxygen. Get immediate medical attention.

INGESTION FIRST AID: Get medical attention immediately. Do not induce vomiting. Give milk or water.

STATEMENT OF PRACTICAL TREATMENT: Have plenty of water available for first aid.

NOTES TO PHYSICIAN: Treat patient symptomatically.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Auto-ignition Temperature: None

COC Flash Point: None TCC Flash Point: None

FLAMMABLE LIMITS IN AIR LEL: None UEL: None

EXTINGUISHING MEDIA: Will not burn.

FIRE FIGHTING INSTRUCTIONS: Contaminated extinguishing water must be disposed of in accordance with applicable regulations. May have oxidizing properties therefore there is a fire risk with contact on combustible materials.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL): Protect skin and eyes from exposure.

INITIAL CONTAINMENT: Contain spilled material.

LARGE SPILLS PROCEDURE: Forms smooth, slippery surfaces on floors, posing an accident risk. Dilute with water and wash to waste water treatment system. Large spills may be neutralized with dilute alkaline solutions of soda ash, or lime. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

SMALL SPILLS PROCEDURE:

Floor may become slippery. Dispose into waste water treatment facility.

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 out of reach of children. Keep from freezing. Keep container closed to avoid contamination. Store in a cool dry area.

STORAGE PRECAUTIONS: Do not stack pails more than three pallets high. Do not stack drums more than two pallets high. Keep from freezing. Keep container closed when not in use.

MISCELLANEOUS: Do not stack over two pallets high.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: If TLV is exceeded, wear a NOISH approved chemical cartridge respirator or gas mask containing non-oxidizable sorbent.

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 contamination.

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

MISCELLANEOUS: Where an apron and protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid
COLOR: Colorless to off white
ODOR: mildly acrid
BOILING POINT: >212 F
SOLUBILITY IN WATER: Complete
SPECIFIC GRAVITY: 1.48 (Water = 1)
BULK DENSITY: 12.4
MELTING/FREEZING POINT: 32 F
PH.....: <1
% VOLATILES: 0 % (Not including water)
VOLATILE ORGANIC COMPOUNDS (VOC) ...: 0 g/L

10. STABILITY AND REACTIVITY

STABILITY: Stable. Avoid Extreme Heat.

POLYMERIZATION: Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS: Alkalies, Chlorinated products, combustibles. Contact with some metals may produce hydrogen gas. Hydrogen gas can be explosive.

DECOMPOSITION: Decomposition will not occur if handled and stored properly.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Can cause severe eye irritation.

SKIN EFFECTS: Contact may cause skin irritation, rash or burns.

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

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

CONTAMINATED MATERIALS: Wash contaminated clothing before reuse.

CONTAINER DISPOSAL: Clean out containers prior to disposal.

14. TRANSPORTATION INFORMATION



PRODUCT LABEL: NuKoat CMZ
 D.O.T. SHIPPING NAME: Corrosive Liquid
 TECHNICAL SHIPPING NAME ...: Corrosive Liquid, n.o.s. (Nitric and phosphoric acid mixture)
 D.O.T. HAZARD CLASS: Corrosive
 UN NUMBER: 1760 Corrosive Liquid, n.o.s.
 PRODUCT RQ (LBS): 16,650
 D.O.T. LABEL: Corrosive Liquid, Packing Group III
 D.O.T. PLACARD: #8
 BULK CLASS: N/A
 PACKAGE CLASS: 55

15. REGULATORY INFORMATION

EEC Symbols and Indications of Danger: Corrosive (C)
 R-Phrases: R34 - Causes burns.
 S-Phrases: S25 - Avoid contact with eyes.
 S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 WHMIS Hazard Symbols: Class E - Corrosive Material
 Canadian Disclosure List: Phosphoric acid 7664-38-2, Nitric acid 7697-37-2
 SARA Title III - Section 313: Phosphoric acid 7664-38-2, Nitric acid 7697-37-2
 CERCLA Hazardous Substances
 Phosphoric acid 7664-38-2, Nitric acid 7697-37-2 -- RQ 5000 lb
 RCRA Hazardous Substances - Nitric acid 7697-37-2
 Clean Air Act - Section 112 none
 Title V: PHOSPHORIC ACID (7664-38-2)
 SC Toxic Air Pollutants List: PHOSPHORIC ACID (7664-38-2)

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: Feb. 24, 2011 SUPERCEDES DATE ...: July 13, 2005
 PRD NUMBER: CPH555 (Official Copy, REV 4)

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
