

## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

-----  
Product Name: NuKoat NRMF Product Number: CKA301  
Synonyms: Iron Phosphate cleaner & coating - HF & Moly Free  
Chemical Family: Iron Phosphate cleaner & coating Moly and HF free  
CAS Number: Blend

#### Company Identification

-----  
NuGeneration Technologies, LLC  
7200 C.E. Dixon Street, Stockton, CA 95206 USA  
(209) 234-5930 or Toll Free 888-99-NuGen (For product information)  
1-800-424-9300 or 1-202-483-7616 (CHEMTREC: For emergencies)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0% NuKoat NRMF

#### CONTAINING:

#### HAZARDOUS AND/OR REGULATED COMPONENTS

| Chemical Name | Amount | CAS Number |
|---------------|--------|------------|
| -----         | -----  | -----      |

#### NON-HAZARDOUS COMPONENTS

| Chemical Name | Amount | CAS Number |
|---------------|--------|------------|
| -----         | -----  | -----      |

|                                   |          |              |
|-----------------------------------|----------|--------------|
| NONIONIC SURFACTANT BLEND         | < 5.0 %  | 68603-25-8   |
| Confidential Ingredient A         | < 5.0 %  | Trade Secret |
| BALANCE NON-HAZARDOUS INGREDIENTS | > 90.0 % | N/A          |

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

#### HAZARDS DISCLOSURE

This product contains NO 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 materials that are acute hazards.

### 3. HAZARDS IDENTIFICATION

```
***** EMERGENCY OVERVIEW *****
*
* CAUTION
*
* Can cause skin/eye irritation and or burns.
*
*****
```

HMIS Rating - Health: 1  
Flammability: 0  
Reactivity: 0  
Personal Protection Index: C

NFPA Rating - Health: 1  
Flammability: 0  
Reactivity: 0  
Special Hazard: N/A

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:

May Cause eye burns.

##### SKIN:

May cause severe skin irritation.

##### INHALATION:

Avoid breathing vapors or mists. Irritating to the nose, throat, and respiratory tract.

##### INGESTION:

May be harmful if swallowed.

##### SIGNS AND SYMPTOMS OF EXPOSURE:

Completely soluble in water. 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 and in some cases rashes or burns.

##### CARCINOGENICITY INFORMATION:

No known cancer hazards.

##### MISCELLANEOUS:

Slippery, can cause falls if walked on.

## 4. FIRST AID MEASURES

##### EYE CONTACT FIRST AID:

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention. Have eyes examined and tested by medical personnel.

**SKIN CONTACT FIRST AID:**

Immediately flush skin with plenty of water for at least 15 minutes. Wash skin with soap and 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 provide oxygen and contact a physician.

**INGESTION FIRST AID:**

Give milk or water. Get medical attention immediately. Do not induce vomiting. Vomiting and diarrhea may occur with larger dosages due to laxative effect of phosphates.

**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**

COC Flash Point: None

TCC Flash Point: None

Autoignition Temperature: None

**FLAMMABLE LIMITS IN AIR**

LEL: None

UEL: None

**EXTINGUISHING MEDIA:**

Will not burn.

**FIRE & EXPLOSION HAZARDS:**

Material will not burn.

**FIRE FIGHTING INSTRUCTIONS:**

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

**COMBUSTION PRODUCTS:**

Carbon Monoxide, carbon dioxide, and other oxides may be generated as products of combustion.

## **6. ACCIDENTAL RELEASE MEASURES**

**SAFEGUARDS (PERSONNEL):**

Protect skin and eyes from exposure.

**INITIAL CONTAINMENT:**

Floor may become slippery. Contain spilled material.

**LARGE SPILLS PROCEDURE:**

Forms smooth, slippery surfaces on floors, posing an accident risk. Flush

spill area with water to wastewater treatment system. After removal, flush contaminated area thoroughly with water. Or. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Always treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

**SMALL SPILLS PROCEDURE:**

Floor may become slippery. Wash to waste treatment system or absorb spills with inert material and 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 contact with eyes, skin, and clothing.

**HANDLING (PHYSICAL ASPECTS):**

Close container after each use.

**STORAGE PRECAUTIONS:**

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:**

Good general ventilation should be sufficient to control airborne levels. If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**EYE / FACE PROTECTION REQUIREMENTS:**

Wear a NIOSH/MSHA approved positive pressure air supplied respirator in situations where there may be potential for airborne exposure.

**SKIN PROTECTION REQUIREMENTS:**

Wear protective gloves to minimize skin contamination.

**RESPIRATORY PROTECTION REQUIREMENTS:**

Use with adequate ventilation. When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

**MISCELLANEOUS:**

Wear an apron and protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM .....: Liquid  
COLOR .....: No color  
ODOR .....: Slight, sweet odor  
BOILING POINT .....: >212 F  
SOLUBILITY IN WATER .....: Complete  
SPECIFIC GRAVITY .....: 1.143 (Water = 1)  
BULK DENSITY .....: 9.53  
MELTING/FREEZING POINT .....: 32 F  
PH .....: 4.5  
% VOLATILES .....: 0 %  
VOLATILE ORGANIC COMPOUNDS (VOC) ...: None  
PH @ 5% .....: 4.2

## 10. STABILITY AND REACTIVITY

STABILITY: Stable.

POLYMERIZATION: Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS: Avoid contact with strong bases.  
May corrode copper, aluminum, zinc, and their alloys.

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

CONDITIONS TO AVOID: Avoid contact with this material and copper,  
aluminum, zinc, and their alloys.

## 11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Can cause severe eye irritation including burns.

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

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

ACUTE INHALATION EFFECTS: May be irritating if inhaled.

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

## 12. ECOLOGICAL INFORMATION - No information available.

## 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:  
Dilute with water, neutralize and discharge to an industrial sewage  
treatment facility. 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. Containers  
should be triple rinsed prior to disposal.

## 14. TRANSPORTATION INFORMATION

PRODUCT LABEL .....: NuKoat NRMF  
D.O.T. SHIPPING NAME .....: Non-Regulated Material  
TECHNICAL SHIPPING NAME ...: Iron rust removing or preventing compound  
NOBIN  
D.O.T. HAZARD CLASS .....: N/A  
UN NUMBER .....: N/A  
PRODUCT RQ (LBS) .....: N/A  
D.O.T. LABEL .....: Iron rust removing or preventing compound  
NOBIN  
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

### 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  
APPROVED BY .....: Milan Malek  
TITLE .....: VP Research & Development  
APPROVAL DATE .....: March 10, 2004  
SUPERCEDES DATE ...: August 14, 2002  
RTN NUMBER .....: 0000441B (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.

\*\*\*\*\*  
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  
\*\*\*\*\*