

## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

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Product Name: NuKoat 23  
Product Number: CPK101  
Synonyms: Iron Phosphate cleaner & coating  
- HF Free  
Chemical Family: Iron Phosphate cleaner & coating  
CAS Number: Blend

#### Company Identification

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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)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0% NuKoat 23

#### CONTAINING:

#### HAZARDOUS AND/OR REGULATED COMPONENTS

Chemical Name	Amount	CAS Number
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PHOSPHORIC ACID	< 15.0 %	7664-38-2

#### NON-HAZARDOUS COMPONENTS

Chemical Name	Amount	CAS Number
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SODIUM CHLORATE	< 10.0 %	7775-09-9
Confidential Ingredient A	< 5.0 %	Trade Secret

(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.

As defined under Sara 311 and 312, this product contains materials that are hazards.

MISCELLANEOUS:  
Contains Phosphoric Acid.

### 3. HAZARDS IDENTIFICATION

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***** EMERGENCY OVERVIEW *****
*
* CAUTION
*
* Can cause skin/eye irritation and or burns.
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HMIS Rating - Health: 2  
Flammability: 0  
Reactivity: 0  
Personal Protection Index: C

NFPA Rating - Health: 2  
Flammability: 0  
Reactivity: 0  
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:  
Causes 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:  
Phosphoric acid is 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.

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.

MISCELLANEOUS:  
phosphoric acid is a moderately corrosive agent which may burn any exposed tissue after just short periods of time.

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.

## 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)

**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.

## 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.

EXPOSURE GUIDELINES:  
PHOSPHORIC ACID  
OSHA TWA: 1 mg/m<sup>3</sup>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM .....: Liquid  
COLOR .....: Pale Yellow  
ODOR .....: Slight, sweet odor  
BOILING POINT .....: >212 F  
SOLUBILITY IN WATER .....: Complete  
SPECIFIC GRAVITY .....: 1.190 (Water = 1)  
BULK DENSITY .....: 9.9  
MELTING/FREEZING POINT .....: 32 F  
PH .....: 2.5  
% VOLATILES .....: 0 %  
VOLATILE ORGANIC COMPOUNDS (VOC) ...: None  
PH @ 5% .....: 3.5

## 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.

## 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 23  
D.O.T. SHIPPING NAME .....: Phosphoric and hydrofluoric acid solution  
TECHNICAL SHIPPING NAME ...: Non-Regulated Material  
D.O.T. HAZARD CLASS .....: Iron Rust Removing or Preventing compound

### NOBIN

UN NUMBER .....: N/A  
PRODUCT RQ (LBS) .....: N/A  
D.O.T. LABEL .....: NOBIN Non-Hazardous  
D.O.T. PLACARD .....: N/A  
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:

S24/25 - Avoid contact with skin and eyes.

### WHMIS Hazard Symbols:

Class E - Corrosive Material

Canadian Disclosure List  
PHOSPHORIC ACID (7664-38-2)

SARA Title III - Section 313  
PHOSPHORIC ACID (7664-38-2)

CERCLA Hazardous Substances  
PHOSPHORIC ACID (7664-38-2) -- RQ 5000 lb

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).

## 16. OTHER INFORMATION

PREPARED BY .....: Donato Polignone  
APPROVAL DATE .....: June 1, 2007  
SUPERCEDES DATE ...: April 16, 2002  
PRD NUMBER .....: CPK101 (Official Copy)

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END OF MSDS  
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