

# S A F E T Y   D A T A   S H E E T



## Madison Chemical Co., Inc.

3141 Clifty Drive • Madison, IN 47250

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

NAME:

**BLU-KOTE NR**

TYPE:  
PRODUCT #

Cleaner Iron Phosphate  
213501

**FOR INDUSTRIAL USE ONLY – KEEP OUT OF THE REACH OF CHILDREN**

#### EMERGENCY RESPONSE INFORMATION:

CHEMTREC 800-424-9300 24-Hour Service  
Company Offices: 812-273-6000 Weekdays

PREPARED DATE:

12-22-17

PREPARED BY:

David Craft

### SECTION 2: HAZARDS IDENTIFICATION

<b>GHS Classification</b>	Acute Toxicity, Oral	Category 5	H303
	Skin Corrosion/Irritation	Category 2	H315
	Serious Eye Damage/Eye Irritation	Category 2A	H319
	Acute Toxicity, Inhalation	Category 4	H332
	Specific Organ Toxicity	Category 2	H373
	Aquatic Toxicity Acute	Category 3	H402

Signal Word

**WARNING**

Symbol



Hazard Statements

H303 May be harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H373 May cause damage to organs (liver and kidney) through prolonged or repeated exposure.  
H402 Harmful to aquatic life.

Precautionary Statements

P264 Wash hands, forearms, and exposed areas thoroughly after handling.  
P270 Do not eat, drink, or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear eye protection, face protection, protective clothing, protective gloves.  
P301 + P330 IF SWALLOWED: rinse mouth.  
P302 + P362 + P364 IF ON SKIN: Take off contaminated clothing and wash it before reuse.  
P304 + P340 IF INHALED: Call a POISON CENTER or doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P314 Get medical attention if you feel unwell.  
P332+P313 If skin irritation occurs: Get medical attention.  
P337+P313 If eye irritation persists: Get medical attention  
P362 Take off contaminated clothing and wash before reuse.  
P501 Dispose of contents / container according to local, regional, national and international regulations.

# SAFETY DATA SHEET

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>SYNONYM</u>	<u>CAS NO.</u>	<u>% BY WEIGHT</u>
Phosphoric acid	Orthophosphoric acid	7664-38-2	1 - 10
Dipropylene glycol methyl ether	DPM	34590-94-8	1 - 10

## SECTION 4: FIRST AID MEASURES

### DESCRIPTION OF FIRST AID MEASURES:

**EYES:** Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician.

**SKIN:** Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician. Remove contaminated clothing and shoes. Do not put contaminated clothing and shoes back on. Wash clothing and shoes thoroughly in soap and water; rinse repeatedly in clean water and dry before reuse.

**INGESTION:** Do not induce vomiting. Give water. Never give anything by mouth to an unconscious person. Call a physician.

**INHALATION:** Move subject to fresh air and get medical attention.

**PRIMARY ROUTE(S) OF ENTRY:** Eyes, skin, inhalation

### MOST IMPORTANT SYMPTOMS / EFFECTS, ACUTE AND DELAYED:

**GENERAL:** May cause skin and eye irritation.

**EYE CONTACT:** Causes serious eye irritation.

**SKIN CONTACT:** Causes irritation

**INGESTION:** May be harmful if swallowed.

**INHALATION:** May cause nasal and respiratory irritation.

**CHRONIC SYMPTOMS:** Chronic overexposure to dipropylene glycol methyl ether has apparently been found to cause liver abnormalities and kidney damage in laboratory animals.

### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

If you experience any of the symptoms / effects listed above seek medical advice.

## SECTION 5: FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA:

Use extinguishing media as appropriate for surrounding fire.

### SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Hazardous reactions will not occur under normal conditions.

### ADVICE FOR FIRE FIGHTERS:

Use NIOSH / MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.

**Hazardous Combustion Products:** Phosphorus oxides, carbon monoxide, carbon dioxide, hydrogen fluoride, ammonia.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

Impermeable type gloves. Safety eyewear to protect against unexpected splashes.. Use NIOSH / MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Contain liquid spills with sand and absorb on inert material. Dispose with solid waste. See Waste Disposal Method. Flush remainder to drain with water

## SECTION 7: HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear proper safety equipment when handling this product. Handle in accordance with good industrial hygiene and safety procedures.

**CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:** Normal for acidic materials. Store away from alkalis. Keep container closed when not in use.

# SAFETY DATA SHEET

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES:

#### CHEMICAL IDENTITY

Phosphoric acid  
Dipropylene glycol methyl ether

#### CAS NO.

7664-38-2  
34590-94-8

#### OSHA PEL

1 mg/M<sup>3</sup>  
100 ppm (skin)

#### ACGIH TLV

1 mg/M<sup>3</sup>  
100 ppm (skin)

### ENGINEERING CONTROLS:

Use good ventilation. Local exhaust is recommended if TLVs are exceeded.

### INDIVIDUAL PROTECTION MEASURES:

Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

### RESPIRATORY PROTECTION:

In absence of proper environmental control, use NIOSH / MSHA approved inorganic acid vapor respirator for mists where airborne exposure is excessive

### SKIN PROTECTION:

Nitrile rubber, neoprene gloves. Other equipment as required to avoid contact.

### EYE PROTECTION:

Safety eyewear to protect against unexpected splashes..

### GENERAL HYGIENE CONSIDERATIONS:

Eyewash facility and emergency shower should be in close proximity. Always wash hands after handling any chemical.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear yellow liquid.
ODOR:	Mild
ODOR THRESHOLD:	Not available.
pH (100%):	3.0 – 3.5
MELTING POINT/FREEZING POINT	22°F.
INITIAL BOILING POINT AND BOILING RANGE	215°F (101°C)
FLASH POINT (METHOD USED)	Not available.
EVAPORATION RATE	1.0 (Water = 1.0).
FLAMMABILITY (SOLID, GAS)	Not available.
UPPER/LOWER FLAMMABLE OR EXPLOSIVE LIMIT	Not available.
VAPOR PRESSURE	Not available.
VAPOR DENSITY	Not available.
SPECIFIC GRAVITY	1.07
SOLUBILITY IN WATER	Complete.
PARTITION COEFFICIENT: N-OCTANOL/WATER	Not available.
AUTO-IGNITION TEMPERATURE	Not available.
VISCOSITY, DYNAMIC	Not available.
DECOMPOSITION TEMPERATURE	Not available.
VISCOSITY	Not available.

## SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	Hazardous reactions will not occur under normal conditions.
CHEMICAL STABILITY:	Stable under recommended handling and storage conditions (see Section 7).
POSSIBILITY OF HAZARDOUS REACTIONS:	Hazardous polymerization will not occur.
CONDITIONS TO AVOID:	No data found.
INCOMPATIBLE MATERIALS:	Alkaline materials, strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Phosphorus oxides, carbon monoxide, carbon dioxide, hydrogen-fluoride, ammonia.

# SAFETY DATA SHEET

## SECTION 11: TOXOLOGICAL INFORMATION

<b>ACUTE TOXICITY:</b>	Not classified
<b>LD50 AND LC50 DATA:</b>	Not available.
<b>ROUTES OF EXPOSURE / SYMPTOMS</b>	
<b>EYES:</b>	WARNING! Causes serious eye irritation
<b>SKIN:</b>	WARNING! Cause skin irritation.
<b>INGESTION:</b>	WARNING! May be harmful if swallowed.
<b>INHALATION:</b>	WARNING! May cause nasal and respiratory irritation.
<b>GERM CELL MUTAGENICITY:</b>	Not classified.
<b>TERATOGENICITY:</b>	Not available.
<b>CHRONIC EFFECTS / CARCINOGENICITY:</b>	Chronic overexposure to dipropylene glycol methyl ether has apparently been found to cause liver abnormalities and kidney damage in laboratory animals
<b>SPECIFIC TARGET ORGAN TOXICITY (Repeated exposure):</b>	May cause damage to organs (liver and kidney) through prolonged or repeated exposure.
<b>REPRODUCTIVE TOXICITY:</b>	Not classified.
<b>SPECIFIC TARGET ORGAN TOXICITY (Single exposure):</b>	Not classified.
<b>ASPIRATION HAZARD:</b>	Not classified.
<b>COMPONENT INFORMATION:</b>	
Phosphoric acid	LD50 Oral Rat: 1530 mg/kg LD50 Dermal Rabbit: 2740 mg/kg LC50 Inhalation: No data. LD50 Oral: No data
Dipropylene glycol methyl ether	LD50 Dermal rabbit: 9,510 mg/kg LC50 Inhalation rat: 552 ppm 7 hours

## SECTION 12: ECOLOGICAL INFORMATION

**ECOTOXICITY** The ecotoxicity of this product is not known. This material contains a toxic chemical listed under SARA 313 (see section 15).

### COMPONENT INFORMATION

Phosphoric acid	<b>Freshwater Fish Data:</b> No data available <b>Invertebrate Toxicity Data:</b> No data available.
Dipropylene glycol methyl ether	<b>Acute Toxicity:</b> LC50 fathead minnow: 10,000mg/l 96 hours LC50 <i>Daphnia magna</i> : 1,919 mg/l 48 hours EC50 <i>Selenastrum capricomutum</i> : 1,000 mg/l 72 hours EC10 <i>Pseudomonay putida</i> cell growth:4,168 mg/l <b>Chronic Toxicity:</b> NOEC <i>Daphnia magna</i> : 0.5 mg/l 22 days

<b>PERSISTENCE AND DEGRADABILITY:</b>	Not available.
<b>BIOACCUMULATIVE POTENTIAL:</b>	Not available.
<b>MOBILITY IN SOIL:</b>	Not available.
<b>OTHER ADVERSE EFFECTS:</b>	This material contains no hazardous air pollutants (HAPS). Excess phosphate leaching may enrich waters leading to eutrophication.

## SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD** Normal for acidic wastes containing phosphorous compounds. May require pH adjustment for neutralization. Dispose in accordance with local, state and federal regulations.

# SAFETY DATA SHEET

## SECTION 14: TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Compound, Cleaning, NOI, Liquid  
HAZARD CLASS: Not applicable  
IDENTIFICATION NUMBER: Not applicable  
PACKING GROUP: Not applicable  
EMERGENCY RESPONSE GUIDE: Not applicable

## SECTION 15: REGULATORY INFORMATION

VOC: 0.10 pounds per gallon (11 grams per liter).  
TSCA STATUS: All ingredients are listed on the TSCA inventory.  
CERCLA REPORTABLE QUANTITY: 5,000 pounds for phosphoric acid (approximately 15,115 gallons)

### SARA 311 / 312 HAZARD CLASSES

x	ACUTE HEALTH
	FIRE
	SUDDEN RELEASE OF PRESSURE
x	CHRONIC HEALTH
	REACTIVE

### SARA 312 INFORMATION

Storage of 10,000 pounds or more may require filing a Tier 2 form. Threshold planning quantity for reporting is 10,000 pounds. This material is not an extremely hazardous substance (EHS).

### SARA 313 INFORMATION

This material contains the following substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372

CHEMICAL NAME  
None

CATEGORY CODE

CAS NUMBER

% BY WEIGHT

### STATE REGULATORY INFORMATION

#### CALIFORNIA PROPOSITION 65

California has not identified the ingredients listed in Section 3 as known to cause cancer or reproductive toxicity.

## SECTION 16: OTHER INFORMATION

SDS STATUS: Revised to GHS Standards on 12-22-17.

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

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