

**SPARTAN CHEMICAL COMPANY, INC.  
WHMIS MATERIAL SAFETY DATA SHEET**

**SECTION I: PRODUCT INFORMATION**

**PRODUCT IDENTIFIER  
NABC PLUS IV**

**PRODUCT USE:** Bowl and Porcelain Cleaner

**MANUFACTURER'S NAME & ADDRESS**  
Spartan Chemical Company, Inc.  
1110 Spartan Drive, Maumee, OH 43537 USA

**MEDICAL EMERGENCY TELEPHONE**  
888/314-6171 (24 Hours)  
**PRODUCT INFORMATION**  
800/537-8990

**SECTION II: HAZARDOUS INGREDIENTS**

CAS REGISTRY NO.	% W	CHEMICAL NAME(S)	TLV			LD50	LC50
			TWA mg/m <sup>3</sup>	STEL mg/m <sup>3</sup>	Ceiling mg/m <sup>3</sup>		
77-92-9	1-5	Citric acid	----	Not Established	----	Not available	Not available
68439-46-3	1-5	Alcohol ethoxylate	----	Not Established	----	Not available	Not available
7647-14-5	1-5	Sodium chloride	----	Not Established	----	Not available	Not available

**SECTION III: PHYSICAL DATA**

<b>BOILING POINT</b> 93-99 °C (200 -210°F)	<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1)</b> 1.01	<b>PERCENT SOLID BY WEIGHT</b> 5-10%
<b>VAPOUR PRESSURE</b> Not established	<b>EVAPORATION RATE</b> (butyl acetate = 1) < 1	<b>FREEZING POINT</b> Not available
<b>VAPOUR DENSITY (AIR = 1)</b> Not established	<b>SOLUBILITY IN WATER</b> Complete	<b>ODOUR THRESHOLD</b> Not available
<b>pH</b> 1.5- 2.0	<b>APPEARANCE AND ODOUR</b> Viscous blue liquid, floral odor	<b>PHYSICAL STATE</b> GAS__ LIQUID <u>X</u> SOLID_____
<b>COEFFICIENT OF WATER/OIL DISTRIBUTION</b> Not available		

**SECTION IV: FIRE & EXPLOSION DATA**

<b>FLASH POINT</b> > 100 °C (212°F)	<b>METHOD USED</b> ASTM - D56	<b>FLAMMABLE LIMITS</b> Not established
<b>EXTINGUISHING MEDIA</b> Water, CO2 or dry chemical	<b>CONDITIONS OF FLAMMABILITY</b> Not applicable	<b>AUTO-IGNITION TEMPERATURE</b> Not applicable
<b>HAZARDOUS COMBUSTION PRODUCTS</b> Not established		<b>EXPLOSION DATA</b> Not applicable
<b>SPECIAL FIRE FIGHTING PROCEDURES</b> Use self-contained breathing apparatus for maximum respiratory protection. Water may be used to cool containers if not ruptured or leaking.		
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b> Product does not support combustion. Use extinguishing media appropriate for surrounding fire. Combustion products are toxic.		

## SECTION V: REACTIVITY DATA

**STABILITY:** STABLE X      **CONDITIONS OF INSTABILITY**      **CONDITIONS OF REACTIVITY**  
Not established      Not established

**INCOMPATIBILITY (MATERIALS TO AVOID)** Strong oxidizers, Hypochlorites (bleach)  
**HAZARDOUS DECOMPOSITION PRODUCTS** Carbon dioxide, carbon monoxide

## SECTION VI: TOXICOLOGICAL PROPERTIES

**PRIMARY ROUTES OF ENTRY:** Eye Contact, Skin Contact, Ingestion and Inhalation

### EXPOSURE LIMIT

Not established for mixture.

### EFFECTS OF ACUTE EXPOSURE:

**EYE CONTACT:** May cause eye irritation with symptoms such as pain, redness and swelling.

**SKIN CONTACT:** May cause mild skin irritation with symptoms such as pain, redness and swelling.

**INGESTION:** May be harmful if swallowed. Symptoms may include nausea, vomiting, pain and diarrhea.

**INHALATION:** Breathing product mist may cause respiratory irritation with symptoms such as coughing and difficulty breathing.

### EFFECTS OF CHRONIC EXPOSURE

None expected.

### IRRITANCY OF PRODUCT

May cause eye & skin irritation.

### SENSITIZATION TO PRODUCT

Not available

### CARCINOGENICITY

No

### REPRODUCTIVE TOXICITY

Not available

### TERATOGENICITY

Not available

### MUTAGENICITY

Not available

### SYNERGISTIC PRODUCTS

Not available

## SECTION VII: PREVENTIVE MEASURE

### PERSONAL PROTECTIVE EQUIPMENT / ENGINEERING CONTROLS:

Natural rubber or other impervious gloves and splash goggles are recommended. Provide good general ventilation. Local exhaust ventilation may be necessary for some operations.

**LEAK AND SPILL PROCEDURE:** Small spills of one gallon or less may be flushed with plenty of water to sanitary sewer system (If permitted by local sewer regulations). Dike and contain large spills with inert material and transfer liquid to containers for recovery or disposal. Keep spill out of storm sewers and waterways.

**WASTE DISPOSAL METHOD:** Dispose of in compliance with all laws and regulations.

**HANDLING PROCEDURES:** Avoid contact with eyes and skin. Do not swallow. Avoid breathing product mist. Wash thoroughly after handling.

**STORAGE REQUIREMENTS:** Do not mix with other chemicals. Mixtures of this product with other chemicals, particularly those containing chlorine (hypochlorite) bleach, may result in the production of toxic gases. Keep out of reach of children.

**SPECIAL SHIPPING INFORMATION:** Not regulated. Shipping Description: Non-Hazardous Products

## SECTION VIII: FIRST AID MEASURES

**EYES:** Flush eyes with water for at least 15 minutes. Remove contact lenses. Get medical attention.

**SKIN:** Wash skin thoroughly with soap and water. Get medical attention if irritation persists.

**INGESTION:** Do not induce vomiting. Drink one or two glasses of water to dilute product. Get medical attention. Do not give anything by mouth to an unconscious person.

**INHALATION:** In case of respiratory irritation or dizziness, move person to fresh air. Get medical attention if irritation persists.

## SECTION IX: PREPARATION INFORMATION

### NABC PLUS IV

**DATE OF PREPARATION:** June 1, 2010

**SUPERCEDES:** June 1, 2007

**PREPARED BY:** Ronald T. Cook / Manager, Regulatory Affairs / Spartan Chemical Company, Inc.

**TELEPHONE NUMBER:** 800/537-8990