

# BNC-15™

## one step disinfectant cleaner

BNC-15 delivers non-acid disinfectant and cleaning performance in an economical concentrate. BNC-15 is a proven "one-step" disinfectant, cleaner, sanitizer, fungicide, mildewstat, virucide, which is effective in water up to 250 ppm hardness in the presence of 5% serum contamination. This product provides non food contact sanitization in just 15 seconds.



Providing Quality Maintenance and Chemical Specialty Solutions with Unparalleled Customer Service



Spartan Chemical Company, Inc.  
1110 Spartan Drive  
Maumee, OH 43537  
1-800-537-8990  
www.spartanchemical.com

## PRODUCT FEATURES

- Is a proven "one-step" disinfectant/cleaner/sanitizer/fungicide/mildewstat/virucide\* which is effective in water up to 250 ppm hardness in the presence of 5% serum contamination.
- Provides Norovirus efficacy in 5 minutes
- Kills Pandemic 2009 H1N1 influenza A virus
- Deodorizes by killing microorganisms that cause offensive odors
- Provides non-food-contact sanitization in 15 seconds.
- Eliminates 99.9% of Staphylococcus aureus and Klebsiella pneumoniae in 15 seconds.

## RECOMMENDED AREAS FOR APPLICATION

- Health Care Facilities
- Ships
- Public Facilities
- Correctional Facilities
- Nursing Homes
- Hotels
- Kennels and Pet Shops
- Schools
- Day Care Centers
- Athletic Facilities
- Emergency Vehicles
- Airports

## APPLICATIONS

- Use to clean and disinfect nonporous athletic mats, wrestling mats, gymnastic mats, exercise equipment, and training tables.
- Use to clean and sanitize tables, chairs, and countertops.
- Will disinfect, clean, and deodorize surfaces in restrooms and toilet areas, behind and under sinks and counters, garbage cans and garbage storage areas, and other places where bacterial growth can cause malodors.

## 1 MINUTE CONTACT TIME VIRUSES

- \* HIV-1 [AIDS Virus]
- \* Influenza Type A / Hong Kong

## 3 MINUTE CONTACT TIME BACTERIA

Pseudomonas aeruginosa, Salmonella enterica, Staphylococcus aureus, Acinetobacter baumannii, Bordetella bronchiseptica [Kennel cough], Bordetella pertussis [whooping cough], Campylobacter jejuni, Enterobacter aerogenes at 1:64 dilution, Enterococcus faecalis, Enterococcus faecalis - Vancomycin resistant VRE, ESBL Escherichia coli, Escherichia coli, Escherichia coli O157:H7, Klebsiella pneumoniae, Klebsiella pneumoniae, Carbapenem-resistant, Listeria monocytogenes, Proteus vulgaris, Serratia marcescens at 1:64 dilution, Shigella dysenteriae, Shigella flexneri serotype 1B, Shigella sonnei, Staphylococcus aureus - Community Associated Methicillin-Resistant CA-MRSA (NRS384) (USA300), Staphylococcus aureus - Methicillin-Resistant [MRSA], Staphylococcus aureus - Vancomycin Intermediate Resistant - VISA, Streptococcus pyogenes, Vibrio cholerae, Yersinia enterocolitica

## VIRUSES

- \*Hepatitis B Virus [HBV]
- \*Hepatitis C Virus [HCV]
- \*Herpes Simplex Virus Type 1
- \*Herpes Simplex Virus Type 2
- \*Human Coronavirus
- \*Respiratory Syncytial Virus [RSV]
- \*Rotavirus
- \*Vaccinia [Pox Virus]

## ANIMAL VIRUSES

Canine Distemper Virus, Newcastle's Disease Virus

## FUNGI

Candida albicans, Trichophyton mentagrophytes

## 5 MINUTE CONTACT TIME VIRUS

\*Norwalk Virus - Norovirus - Feline Calicivirus at 1:64 dilution

## ANIMAL VIRUS

Feline Calicivirus at 1:64 dilution

**Preparation of Disinfectant Use-Solution:** Add 1 oz. per gallon of water. For heavy-duty use, add 4 oz. per gallon of water. Use 2 oz. per gallon of water to kill Norovirus, Enterobacter aerogenes, and Serratia marcescens.

BNC-15 is a sanitizer for hard, non-porous, non-food contact surfaces at 1:128 dilution [1 oz. per gallon] according to the method for Sanitizers - Non-food contact surfaces, modified in the presence of 250 ppm hard water plus 5% organic serum in 15 seconds against: Enterobacter aerogenes, Klebsiella pneumoniae, Listeria monocytogenes, Staphylococcus aureus, Staphylococcus aureus-Methicillin-Resistant [MRSA].

**\* KILLS HIV AND HBV AND HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES / OBJECTS PREVIOUSLY SOILED WITH BLOOD / BODY FLUIDS** in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces / objects with blood or body fluids, and in which the surfaces / objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 [HIV-1] [associated with AIDS] or Hepatitis B Virus [HBV] or Hepatitis C Virus [HCV].

## SPECIFICATION DATA

pH (Concentrate): 12.0-13.0

Specific Gravity: 0.998

Flash Point: None to boiling

Cloud Point: None to boiling

Viscosity: Water-thin

Density: 8.31 lbs/gal. @ 24°C/75°F

Color: Red

Fragrance: Floral

Stability:

- Shelf @ 24°C/75°F: One year minimum
- Freeze/Thaw Cycle: Product will withstand three freeze/thaw cycles

EPA Reg. No. 6836-348-5741

**Be sure to read all Directions, Precautionary and First Aid Statements on product labels before use of this or any Spartan product. If questions remain, consult your employer or a physician. Safety Data Sheets for all Spartan products are available from your authorized Spartan distributor or by visiting [www.spartanchemical.com](http://www.spartanchemical.com).**



Distributed by:

## PACKAGING

105604 1 Gallon (4 per case)

485602 2 Liter COG (4 per case)



Label copy is available in English and Spanish.

**GUARANTEE:** Spartan's modern manufacturing and laboratory control insure uniform quality. If dissatisfied with performance of product, any unused portion may be returned for credit within one year of the date of manufacture. Use product as directed and read all precautionary statements.

For institutional and industrial use only.

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# Safety Data Sheet

## Spartan Chemical Company, Inc.

Revision Date: 15-Mar-2016

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Name:** BNC-15  
**Product Number:** 1056 , 4856  
**Recommended Use:** Disinfectant  
**Uses Advised Against:** For Industrial and Institutional Use Only

**Manufacturer/Supplier:** Spartan Chemical Company, Inc.  
1110 Spartan Drive  
Maumee, Ohio 43537 USA  
800-537-8990 (Business hours)  
[www.spartanchemical.com](http://www.spartanchemical.com)

**24 Hour Emergency Phone Numbers:**

**Medical Emergency/Information:** 888-314-6171  
**Transportation/Spill/Leak:** CHEMTREC 800-424-9300

### 2. HAZARDS IDENTIFICATION

**GHS Classification**

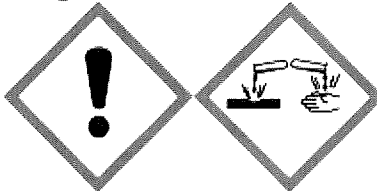
Acute Toxicity - Oral: Category 4  
Skin Corrosion/Irritation: Category 1 Sub-category B  
Serious Eye Damage/Eye Irritation: Category 1

**GHS Label Elements**

**Signal Word:**

**Danger**

**Symbols:**



**Hazard Statements:**

Harmful if swallowed.  
Causes severe skin burns and serious eye damage.

**Precautionary Statements:**

**Prevention:**

Wash hands and any exposed skin thoroughly after handling.  
Do not eat, drink or smoke when using this product  
Do not breathe mist, vapors or spray.  
Wear protective gloves. Wear eye / face protection. Wear protective clothing.  
**IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.**  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

**Response:**

**-Eyes**

**-Skin**

**-Inhalation:**

**-Ingestion:**

**-Specific Treatment:**

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents and container in accordance with local, state and federal regulations.

**Hazards Not Otherwise Classified:** Not Applicable

**Other Information:**

- Corrosive.
- Inhalation of vapors or mist may cause respiratory irritation.
- Keep out of reach of children.
- NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
water	7732-18-5	60-100
dialkyl dimethyl ammonium chloride	68424-95-3	3-7
alkyl dimethyl benzyl ammonium chloride	68424-85-1	1-5
alcohol ethoxylate	68439-46-3	1-5
tetrasodium ethylenediaminetetraacetate	64-02-8	1-5
ethanol	64-17-5	1-5

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

- Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
- Skin Contact:** Take off immediately all contaminated clothing and shoes. Rinse with water or shower for at least 15 minutes. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Wash contaminated clothing before reuse
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
- Note to Physicians:** NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

### 5. FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire
- Specific Hazards Arising from the Chemical:** Dried product is capable of burning. Combustion products are toxic.
- Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
- Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

### 6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
- Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water.
- Methods for Clean-Up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

### 7. HANDLING AND STORAGE

**Advice on Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

**Storage Conditions:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>

**Engineering Controls:** Provide good general ventilation.  
If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

### Personal Protective Equipment

**Eye/Face Protection:** Wear splash goggles.

**Skin and Body Protection:** Wear rubber or other chemical-resistant gloves.

**Respiratory Protection:** Not required with expected use.  
If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

**General Hygiene Considerations:** Wash hands and any exposed skin thoroughly after handling.  
See 29 CFR 1910.132-138 for further guidance.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance/Physical State:</b>	Liquid
<b>Color:</b>	Red
<b>Odor:</b>	Floral fragrance
<b>pH:</b>	12.0-13.0
<b>Melting Point / Freezing Point:</b>	No information available.
<b>Boiling Point / Boiling Range:</b>	100 °C / 212 °F
<b>Flash Point:</b>	> 100 °C / > 212 °F ASTM D56
<b>Evaporation Rate:</b>	< 1.0 (Butyl acetate = 1)
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper Flammability Limit:</b>	No information available.
<b>Lower Flammability Limit:</b>	No information available.
<b>Vapor Pressure:</b>	No information available.
<b>Vapor Density:</b>	No information available.
<b>Specific Gravity:</b>	1.00
<b>Solubility(ies):</b>	Soluble in water
<b>Partition Coefficient:</b>	No information available.
<b>Autoignition Temperature:</b>	No information available.
<b>Decomposition Temperature:</b>	No information available.
<b>Viscosity:</b>	No information available.

## 10. STABILITY AND REACTIVITY

**Reactivity:** This material is considered to be non-reactive under normal conditions of use.

**Chemical Stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions:** Not expected to occur with normal handling and storage.

**Conditions to Avoid:** Extremes of temperature and direct sunlight.

**Incompatible Materials:** Strong oxidizing agents. Strong acids.

**Hazardous Decomposition Products:** May include carbon monoxide, carbon dioxide (CO<sub>2</sub>) and other toxic gases or vapors.

## 11. TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Eyes, Skin, Ingestion, Inhalation.  
**Symptoms of Exposure:**  
**-Eye Contact:** Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.  
**-Skin Contact:** Pain, redness, blistering and possible chemical burn.  
**-Inhalation:** Nasal discomfort and coughing.  
**-Ingestion:** Damage or chemical burns to mouth, throat and stomach. Pain, nausea, vomiting and diarrhea.  
**Immediate, Delayed, Chronic Effects**  
 Product Information: Data not available or insufficient for classification.

### Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral): 857 mg/kg  
 ATEmix (dermal): 2593 mg/kg  
 ATEmix (inhalation-dust/mist): 11.2 mg/l

### Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
water 7732-18-5	> 90 mL/kg ( Rat )	Not Available	Not Available
alkyl dimethyl benzyl ammonium chloride 68424-85-1	= 426 mg/kg ( Rat )	Not Available	Not Available
alcohol ethoxylate 68439-46-3	= 1378 mg/kg ( Rat )	> 2 g/kg ( Rabbit )	Not Available
tetrasodium ethylenediaminetetraacetate 64-02-8	= 10 g/kg ( Rat )	Not Available	Not Available
ethanol 64-17-5	= 7060 mg/kg ( Rat )	Not Available	= 124.7 mg/L ( Rat ) 4 h

**Carcinogenicity:** No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
tetrasodium ethylenediaminetetraacetate 64-02-8	1.01: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	41: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 59.8: 96 h <i>Pimephales promelas</i> mg/L LC50 static	Not Available	610: 24 h <i>Daphnia magna</i> mg/L EC50
ethanol 64-17-5	Not Available	12.0 - 16.0: 96 h <i>Oncorhynchus mykiss</i> mL/L LC50 static 100: 96 h <i>Pimephales promelas</i> mg/L LC50 static 13400 - 15100: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through	Not Available	9268 - 14221: 48 h <i>Daphnia magna</i> mg/L LC50 10800: 24 h <i>Daphnia magna</i> mg/L EC50 2: 48 h <i>Daphnia magna</i> mg/L EC50 Static

**Persistence and Degradability:** No information available.

**Bioaccumulation:** No information available.

**Other Adverse Effects:** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Disposal of Wastes:** Dispose of in accordance with federal, state and local regulations.  
**Contaminated Packaging:** Dispose of in accordance with federal, state and local regulations.

#### 14. TRANSPORT INFORMATION

**DOT:**

**UN/ID No:** UN 1903  
**Proper Shipping Name:** Disinfectants, liquid, corrosive, n.o.s.,(contains quaternary ammonium), 8, II  
**Hazard Class:** 8  
**Packing Group:** II  
**Special Provisions:** Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

**IMDG:**

**UN/ID No:** UN 1903  
**Proper Shipping Name:** Disinfectants, liquid, corrosive, n.o.s.,(contains quaternary ammonium), 8, II  
**Hazard Class:** 8  
**Packing Group:** II

#### 15. REGULATORY INFORMATION

**TSCA Status:** (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

**SARA 313**

This product does not contain listed substances above the "de minimus" level

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard:</b>	Yes
<b>Chronic Health Hazard:</b>	No
<b>Fire Hazard:</b>	No
<b>Sudden release of pressure hazard:</b>	No
<b>Reactive Hazard:</b>	No

**California Proposition 65**

This product is not subject to warning requirements under California Proposition 65.

**EPA Pesticide Registration Number:** 6836-348-5741

**EPA Statement:**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Pesticide Label:**

DANGER. Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective (rubber or chemical resistant) gloves. Harmful if swallowed or if absorbed through the skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

#### 16. OTHER INFORMATION

<b>NFPA</b>	<b>Health Hazards:</b> 3	<b>Flammability:</b> 0	<b>Instability:</b> 0	<b>Special:</b> N/A
<b>HMS</b>	<b>Health Hazards:</b> 3	<b>Flammability:</b> 0	<b>Physical Hazards:</b> 0	

**Revision Date:** 15-Mar-2016

**Reasons for Revision:** Section 9

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**Disclaimer:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet