TnT is an active foam disinfectant cleaner that cleans, disinfects, and deodorizes bathroom and locker-room fixtures, tables, countertops, furniture, doorknobs, and other hard, non-porous environmental surfaces in one step when used according to directions.
REMOMES MOLD AND MILDEW STAINS:
TnT removes mold and mildew stains. To control the growth of mold and mildew, apply TnT evenly to the surface about every 14 days and do not rinse. If the humidity is heavy, it might be necessary to spray the surface more often.

VIRUCIDAL*, STAPHYLOCIDAL, AND PSEUDOMONICIDAL:
TnT kills HIV and HBV (Hepatitis B virus) and the claimed microorganisms (see product label or test data beginning on page two) which are commonly found on environmental surfaces.

EFFECTIVE AGAINST ANTIBIOTIC RESISTANT BACTERIA:
TnT has been tested and shown to be effective against Methicillin-resistant Staphylococcus aureus (MRSA) and Vancomycin-resistant Enterococcus faecalis (VRE).

TnT’s clinging foam penetrates and emulsifies soap scum, grime, grease, and other tough soils. Like many Spartan products, TnT cleans by “chemical action” rather than “physical action.” Just spray and wipe. The can can be turned upside down and the spray works just as well.

NON-ABRASIVE:
TnT contains no harsh caustics or metasilicates to scratch or harm environmental surfaces. TnT will not pit or frost glass or mirrors and is safe to use on all hard non porous surfaces. EPA Reg. No. 5741-14

TnT IS BACTERICIDAL:
TnT is a proven one-step cleaner-disinfectant in the presence of organic soil.

<table>
<thead>
<tr>
<th>Test Conditions: 5% blood serum, 10 minute contact time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staphylococcus aureus ATCC 6538</td>
</tr>
<tr>
<td>Sample A</td>
</tr>
<tr>
<td>Sample B</td>
</tr>
</tbody>
</table>

TnT IS *VIRUCIDAL:
TnT has been proven to be effective against the pathogenic viruses, Hepatitis B Virus (HBV), HIV-1 (AIDS Virus), Herpes simplex Type 1 and Influenza A2 (England).
Test Method: EPA Guidelines.

<table>
<thead>
<tr>
<th>Test Conditions: 5% blood serum, 10 minute contact time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample</td>
</tr>
<tr>
<td>A</td>
</tr>
<tr>
<td>B</td>
</tr>
</tbody>
</table>

TnT KILLS ANTIBIOTIC RESISTANT BACTERIA: When applied in the presence of organic soil, TnT kills the following antibiotic resistant bacteria.

<table>
<thead>
<tr>
<th>Test Conditions: 5% blood serum, 10 minute contact time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methicillin resistant Staphylococcus aureus (MRSA), ATCC 33592</td>
</tr>
<tr>
<td>Sample</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

TnT PREVENTS MOLD AND MILDEW: TnT was tested in accordance with the Hard Surface Mildew Fungistatic Test. It was show to be effective in inhibiting the growth of Aspergillus niger for 14 days.

<table>
<thead>
<tr>
<th>Post Treatment Observation</th>
<th>Slides Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>TnT Internal</td>
<td># 1 2 3 4 6 7 8 9 10</td>
</tr>
<tr>
<td>7th day</td>
<td>- - - - - - -</td>
</tr>
<tr>
<td>14th day</td>
<td>- - - - - - -</td>
</tr>
<tr>
<td>21st day</td>
<td>- - - - - - -</td>
</tr>
<tr>
<td>28th day</td>
<td>- - - - - - -</td>
</tr>
</tbody>
</table>

** = growth on tile surfaces, - = no growth on tile surfaces
DIRECTIONS FOR USE:
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

One-Step Cleaning/Deodorizing/Disinfecting:
1. Shake well.
2. Hold 6 to 8 inches from surface. Spray until thoroughly covered.
3. Wait 10 minutes and wipe.

TnT is a proven one-step cleaner, disinfectant virucide in the presence of moderate amounts of organic soil. For heavily-soiled areas, a preliminary cleaning is required.

To Control Mold and Mildew:
When used as directed above, TnT removes mold and mildew stains and odor. To control their growth, apply TnT evenly to the surface and do not rinse. Repeat application every 14 days or as necessary to maintain control.

**TnT kills HBV and HIV 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 Hepatitis B Virus (HBV) and human immunodeficiency virus Type 1 (HIV-1) (associated with AIDS).

Special instructions for Cleaning and Decontamination Against HBV and HIV-1 on Surfaces or Objects Soiled with Blood or Body Fluids:
1. Personal Protection: Exposure to blood or body fluids should be avoided by use of barrier protection such as latex or other impervious gloves. Face shields and impervious gowns should also be worn if splashing of blood or body fluids may occur.
2. Cleaning Procedure: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of the disinfectant.
3. Contact Time: Leave surfaces wet for 10 minutes.
4. Disposal of Infectious Material: Contaminated cleaning materials, blood and other body fluids should be autoclaved and/or disposed of according to local regulations for infectious waste disposal.

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. Material Safety Data Sheets for all Spartan products are available from your authorized Spartan distributor or by visiting www.spartanchemical.com.

SPECIFICATION DATA:
ACTIVE INGREDIENTS:
Alkyl (C_{14} - 60%, C_{16} - 30%, C_{12} - 5%, C_{18} - 5%)
dimethyl benzyl ammonium chlorides................0.075%
Alkyl (C_{12} - 68%, C_{14} - 32%)
dimethyl ethylbenzyl ammonium chlorides........0.075%
INERT INGREDIENTS:.................................99.850%
100.000%

pH - 10.5-11.0
Fragrance - Mint
Solvents – Diethylene glycol monobutylethen
Stability - Shelf @ 24°C/75°F - One year minimum

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.

PACKAGING
634300 20-ounce cans (12 per case)
1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: TNT FOAMING DISINFECTANT CLEANER
Product Number: 6343
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

24 Hour Emergency Phone Numbers:
Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification
Flammable Aerosols Category 1
Gases Under Pressure Liquefied gas

GHS Label Elements
Signal Word: No signal word
Symbols:

Flammable Aerosols Category 1
Gases Under Pressure Liquefied gas

Hazard Statements: No hazard statements
Extremely flammable aerosol.
Contains gas under pressure; may explode if heated

Precautionary Statements:
Prevention: Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Do not spray on an open flame or other ignition source
Pressurized container: Do not pierce or burn, even after use
Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Response:
-Specific Treatment: See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C) Store in a well-ventilated place

Disposal: Not Applicable

Hazards Not Otherwise Classified: Not Applicable
Other Information:  
- May be harmful if swallowed.  
- May cause eye irritation.  
- May cause skin irritation.  
- Inhalation of vapors or mist may cause respiratory irritation.  
- Keep out of reach of children.

0.0249% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>7732-18-5</td>
<td>60-100</td>
</tr>
<tr>
<td>diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>1-5</td>
</tr>
<tr>
<td>N-butane</td>
<td>106-97-8</td>
<td>1-5</td>
</tr>
<tr>
<td>tetrapotassium pyrophosphate</td>
<td>7320-34-5</td>
<td>1-5</td>
</tr>
<tr>
<td>alkyl dimethyl ethylbenzyl ammonium chloride</td>
<td>85409-23-0</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>alkyl dimethyl benzyl ammonium chloride</td>
<td>68391-01-5</td>
<td>&lt;0.1</td>
</tr>
</tbody>
</table>

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 several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

- **Skin Contact:** Wash with soap and water. If skin irritation occurs: Get medical attention.  
- **Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.  
- **Ingestion:** Rinse mouth. Do **NOT** induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.

**Note to Physicians:** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Suitable Extinguishing Media:</th>
<th>Water spray (fog), Foam</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Specific Hazards Arising from the Chemical:</strong></td>
<td>Extremely flammable aerosol. Exposure to high temperature may cause containers to burst. Bursting aerosol containers may be propelled from fire at high speed.</td>
</tr>
<tr>
<td><strong>Hazardous Combustion Products:</strong></td>
<td>May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.</td>
</tr>
<tr>
<td><strong>Protective Equipment and Precautions for Firefighters:</strong></td>
<td>Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Water may be used to cool closed containers to prevent pressure build-up and possible auto ignition or explosion when exposed to extreme heat.</td>
</tr>
</tbody>
</table>

### 6. ACCIDENTAL RELEASE MEASURES

| **Personal Precautions:** | Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Remove all sources of ignition. |
| **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. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Wash thoroughly after handling. |
Storage Conditions: NFPA 30B Level 1 Aerosol. Do not store in direct sunlight or above 122 °F / 50 °C. Exposure to high temperature may cause containers to burst. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: None established.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-butane</td>
<td>TWA: 1000 ppm</td>
<td>(vacated) TWA: 800 ppm</td>
<td>TWA: 800 ppm</td>
</tr>
<tr>
<td>106-97-8</td>
<td></td>
<td>(vacated) TWA: 1900 mg/m³</td>
<td>TWA: 1900 mg/m³</td>
</tr>
</tbody>
</table>

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.


9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/Physical State</td>
<td>Aerosol</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Mint fragrance</td>
</tr>
<tr>
<td>pH</td>
<td>10.5-11.0</td>
</tr>
<tr>
<td>Melting Point / Freezing Point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling Point / Boiling Range</td>
<td>99 °C / 210 °F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&lt; -18 °C / &lt; 0 °F (Propellant-estimated)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt; 1 (Butyl acetate = 1)</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available.</td>
</tr>
<tr>
<td>Upper Flammability Limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.01 (Product without propellant)</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>No information available.</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

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.
Hazardous Decomposition Products: May include carbon monoxide, carbon dioxide (CO2) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION
Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.

Symptoms of Exposure:
- Eye Contact: Pain and redness.
- Skin Contact: Drying of the skin.
- Inhalation: Nasal discomfort and coughing. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
- Ingestion: Pain, nausea, vomiting and diarrhea.

Immediate, Delayed, Chronic Effects

Product Information: Data not available or insufficient for classification.

Target Organ Effects: Central nervous system.

Numerical Measures of Toxicity

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>&gt; 90 mL/kg (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>diethylene glycol monobutyl ether</td>
<td>3384 mg/kg (Rat)</td>
<td>2700 mg/kg (Rabbit)</td>
<td>Not Available</td>
</tr>
<tr>
<td>N-butane</td>
<td>Not Available</td>
<td>Not Available</td>
<td>658 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>tetrapotassium pyrophosphate</td>
<td>Not Available</td>
<td>&gt; 4640 mg/kg (Rabbit)</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/Aquatic Plants</th>
<th>Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>diethylene glycol monobutyl ether 112-34-5</td>
<td>100: 96 h Desmodesmus subspicatus mg/L EC50</td>
<td>1300: 96 h Lepomis macrochirus mg/L LC50 static</td>
<td>Not Available</td>
<td>2850: 24 h Daphnia magna mg/L EC50 100: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>tetrapotassium pyrophosphate 7320-34-5</td>
<td>Not Available</td>
<td>100: 96 h Oncorhynchus mykiss mg/L LC50</td>
<td>Not Available</td>
<td>100: 48 h water flea mg/L EC50</td>
</tr>
</tbody>
</table>

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: Pressurized container: Do not pierce or burn, even after use. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT: UN/ID No: UN1950
Proper Shipping Name: Aerosols
Hazard Class: 2.1
Special Provisions: This product meets the exception requirements of section 49 CFR 173.306 as a limited quantity and may be shipped as a limited quantity. 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: UN1950
Proper Shipping Name: Aerosols
Hazard Class: 2.1
Additional information: Limited Quantity

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 contains the following listed substances:
diethylene glycol monobutyl ether
CAS No 112-34-5 applies to R-(OCH2CH2)n-OR', where n = 1, 2, or 3, R=Alkyl C7 or less, or R = Phenyl or Alkyl substituted phenyl, R' = H or Alkyl C7 or less, or OR' consisting of Carboxylic acid ester, Sulfate, Phosphate, Nitrate, or Sulfonate, Chemical Category N230

SARA 311/312 Hazard Categories
Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire Hazard: Yes
Sudden release of pressure hazard: No
Reactive Hazard: No

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

EPA Pesticide Registration Number: 5741-14
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: Caution. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

16. OTHER INFORMATION

NFPA
Health Hazards: 1
Flammability: 1
Instability: 0
Special: N/A

HMIS
Health Hazards: 1
Flammability: 2
Physical Hazards: 2

Revision Date: 11-Aug-2015
Reasons for Revision: Section 14 and 15

Disclaimer:
The information provided in this Material 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