# Safety Data Sheet
# Spartan Chemical Company, Inc.

**Revision Date:** 11-Aug-2015

## 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:**



**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

| Chemical Name | CAS No | Weight-% |
|---|---|---|
| water | 7732-18-5 | 60-100 |
| diethylene glycol monobutyl ether | 112-34-5 | 1-5 |
| N-butane | 106-97-8 | 1-5 |
| tetrapotassium pyrophosphate | 7320-34-5 | 1-5 |
| alkyl dimethyl ethylbenzyl ammonium chloride | 85409-23-0 | <0.1 |
| alkyl dimethyl benzyl ammonium chloride | 68391-01-5 | <0.1 |

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

**Suitable Extinguishing Media:** Water spray (fog), Foam

**Specific Hazards Arising from the Chemical:** Extremely flammable aerosol. Exposure to high temperature may cause containers to burst. Bursting aerosol containers may be propelled from fire at high speed.

**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. Water may be used to cool closed containers to prevent pressure build-up and possible auto ignition or explosion when exposed to extreme heat.

## 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.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH |
|---|---|---|---|
| N-butane<br>106-97-8 | TWA: 1000 ppm | (vacated) TWA: 800 ppm<br>(vacated) TWA: 1900 mg/m$^3$ | TWA: 800 ppm<br>TWA: 1900 mg/m$^3$ |

**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

| | |
|---|---|
| **Appearance/Physical State:** | Aerosol |
| **Color:** | Colorless |
| **Odor:** | Mint fragrance |
| **pH:** | 10.5-11.0 |
| **Melting Point / Freezing Point:** | No information available. |
| **Boiling Point / Boiling Range:** | 99 °C / 210 °F |
| **Flash Point:** | < -18 °C / < 0 °F (Propellant-estimated) |
| **Evaporation Rate:** | < 1 (Butyl acetate = 1) |
| **Flammability (solid, gas)** | No information available. |
| **Upper Flammability Limit:** | No information available. |
| **Lower Flammability Limit:** | No information available. |
| **Vapor Pressure:** | No information available. |
| **Vapor Density:** | No information available. |
| **Specific Gravity:** | 1.01 (Product without propellant) |
| **Solubility(ies):** | Soluble in water |
| **Partition Coefficient:** | No information available. |
| **Autoignition Temperature:** | No information available. |
| **Decomposition Temperature:** | No information available. |
| **Viscosity:** | 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 (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.
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ATEmix (oral): 75960 mg/kg
ATEmix (dermal): 53016 mg/kg
ATEmix (inhalation-gas): 6292528 mg/l
ATEmix (inhalation-dust/mist): 491.2 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 |
| diethylene glycol monobutyl ether 112-34-5 | = 3384 mg/kg ( Rat ) | = 2700 mg/kg ( Rabbit ) | Not Available |
| N-butane 106-97-8 | Not Available | Not Available | = 658 mg/L ( Rat ) 4 h |
| tetrapotassium pyrophosphate 7320-34-5 | Not Available | > 4640 mg/kg ( Rabbit ) | Not Available |

**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 |
|---|---|---|---|---|
| diethylene glycol monobutyl ether 112-34-5 | 100: 96 h Desmodesmus subspicatus mg/L EC50 | 1300: 96 h Lepomis macrochirus mg/L LC50 static | Not Available | 2850: 24 h Daphnia magna mg/L EC50 100: 48 h Daphnia magna mg/L EC50 |
| tetrapotassium pyrophosphate 7320-34-5 | Not Available | 100: 96 h Oncorhynchus mykiss mg/L LC50 | Not Available | 100: 48 h water flea mg/L EC50 |

**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.<br>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**