



# Safety Data Sheet

## Spartan Chemical Company, Inc.

Revision Date: 20-Dec-2019

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product Identifier

**Product Name:** CLEAN BY 4D  
**Product Number:** 1011  
**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  
Acute toxicity - Inhalation (Dusts/Mists) Category 4  
Serious Eye Damage/Eye Irritation: Category 1  
Flammable Liquids Category 4

#### GHS Label Elements

**Signal Word:**

**Danger**

**Symbols:**



**Hazard Statements:**

Harmful if swallowed.  
Harmful if inhaled.  
Causes serious eye damage  
Combustible liquid

#### Precautionary Statements:

**Prevention:**

Wash hands and any exposed skin thoroughly after handling.  
Do not eat, drink or smoke when using this product  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Wear protective gloves. Wear eye / face protection. Wear protective clothing.  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking

**Response:**

**-Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.

**-Inhalation:**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell

|                                          |                                                                                                                          |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>-Ingestion:</b>                       | IF SWALLOWED: Call a poison center or physician if you feel unwell. Rinse mouth.                                         |
| <b>-Specific Treatment:</b>              | See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.                                        |
| <b>Fire:</b>                             | In case of fire: Use CO2, dry chemical, or foam to extinguish                                                            |
| <b>Storage:</b>                          | Store in a well-ventilated place. Keep cool                                                                              |
| <b>Disposal:</b>                         | Dispose of contents and container in accordance with local, state and federal regulations.                               |
| <b>Hazards Not Otherwise Classified:</b> | Not Applicable                                                                                                           |
| <b>Other Information:</b>                | <ul style="list-style-type: none"> <li>• May cause skin irritation.</li> <li>• Keep out of reach of children.</li> </ul> |

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name                                 | CAS No      | Weight-% |
|-----------------------------------------------|-------------|----------|
| Water                                         | 7732-18-5   | 60-100   |
| Hydrogen Peroxide                             | 7722-84-1   | 3-7      |
| Dicapryl/Dicaprylyl Dimonium Chloride         | 68424-95-3  | 1-5      |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride | 68424-85-1  | 1-5      |
| Trisodium Dicarboxymethyl Alaninate           | 164462-16-2 | 1-5      |
| Alcohol                                       | 64-17-5     | 1-5      |
| Citric Acid                                   | 77-92-9     | 1-5      |
| C9-11 Alkyl Glucoside                         | 132778-08-6 | 0.1-1    |
| Tetramethyl Acetyloctahydronaphthalenes       | 54464-57-2  | <0.1     |
| Ethylene Brassylate                           | 105-95-3    | <0.1     |
| Verdyl Acetate                                | 5413-60-5   | <0.1     |
| 2,4-Dimethyl-3-Cyclohexene Carboxaldehyde     | 68039-49-6  | <0.1     |
| Acid Red 52                                   | 3520-42-1   | <0.1     |
| Acid Blue 80                                  | 4474-24-2   | <0.1     |

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

### 4. FIRST AID MEASURES

|                            |                                                                                                                                                                         |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>-Eye Contact:</b>       | 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. |
| <b>-Skin Contact:</b>      | Wash with soap and water. If skin irritation occurs: Get medical attention.                                                                                             |
| <b>-Inhalation:</b>        | 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.                      |
| <b>-Ingestion:</b>         | Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.                                   |
| <b>Note to Physicians:</b> | Contains hydrogen peroxide. Ingestion may result in distention of esophagus and stomach.                                                                                |

### 5. FIRE-FIGHTING MEASURES

|                                                               |                                                                                                                                                                                                              |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media:</b>                          | Use, Water spray (fog), Carbon dioxide, Foam, Dry chemical                                                                                                                                                   |
| <b>Unsuitable Extinguishing Media:</b>                        | Do not use a solid water stream as it may scatter and spread fire.                                                                                                                                           |
| <b>Specific Hazards Arising from the Chemical:</b>            | Combustion products are toxic. Releases oxygen when heated to decomposition which may intensify fire. Risk of overpressure and bursting due to decomposition in containers, pipes and other confined spaces. |
| <b>Hazardous Combustion Products:</b>                         | May include Carbon monoxide Carbon dioxide and other toxic gases or vapors. On decomposition product releases oxygen which may intensify fire                                                                |
| <b>Protective Equipment and Precautions for Firefighters:</b> | 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 breathing vapors or mists. 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. Do not return product to original container. Do not confine product in unvented containers or between closed valves. Wash thoroughly after handling.

**Storage Conditions:** Store containers upright and tightly closed using vented closures to prevent pressure build-up. Store in accordance with the particular national regulations. Elevated temperatures accelerate product decomposition.

**Incompatible Materials:** Sodium hypochlorite (or other hypochlorites). Metals.

**Suggested Shelf Life:** 1 year from date of manufacture.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Occupational Exposure Limits:**

| Chemical Name                  | ACGIH TLV      | OSHA PEL                                                                                                         | NIOSH                                                          |
|--------------------------------|----------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Hydrogen Peroxide<br>7722-84-1 | TWA: 1 ppm     | TWA: 1 ppm<br>TWA: 1.4 mg/m <sup>3</sup><br>(vacated) TWA: 1 ppm<br>(vacated) TWA: 1.4 mg/m <sup>3</sup>         | IDLH: 75 ppm<br>TWA: 1 ppm<br>TWA: 1.4 mg/m <sup>3</sup>       |
| Alcohol<br>64-17-5             | STEL: 1000 ppm | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>(vacated) TWA: 1000 ppm<br>(vacated) TWA: 1900 mg/m <sup>3</sup> | IDLH: 3300 ppm<br>TWA: 1000 ppm<br>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. Eye wash stations and shower facilities should be readily accessible in areas where the product is handled.

**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>                          | Purple                    |
| <b>Odor:</b>                           | Mild                      |
| <b>pH:</b>                             | 4.0-6.0                   |
| <b>Melting Point / Freezing Point:</b> | No information available. |
| <b>Boiling Point / Boiling Range:</b>  | > 74 °C / 166 °F          |
| <b>Flash Point:</b>                    | 74 °C / 166 °F ASTM D56   |
| <b>Evaporation Rate:</b>               | < 1 (BuAc = 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>               | 1.031                     |
| <b>Solubility(ies):</b>                | Miscible 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

|                                            |                                                                                                                                                                        |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity:</b>                         | This material is considered to be non-reactive under normal conditions of use.                                                                                         |
| <b>Chemical Stability:</b>                 | Stable under normal conditions.                                                                                                                                        |
| <b>Possibility of Hazardous Reactions:</b> | Contact with sodium hypochlorite (or other hypochlorites) releases chlorine gas.                                                                                       |
| <b>Conditions to Avoid:</b>                | Heat, flames and sparks. High temperature accelerates decomposition of product.                                                                                        |
| <b>Incompatible Materials:</b>             | Sodium hypochlorite (or other hypochlorites). Metals.                                                                                                                  |
| <b>Hazardous Decomposition Products:</b>   | May include carbon monoxide, carbon dioxide (CO <sub>2</sub> ) and other toxic gases or vapors. Releases oxygen when heated to decomposition which may intensify fire. |

## 11. TOXICOLOGICAL INFORMATION

|                                            |                                                                                                                               |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Likely Routes of Exposure:</b>          | Eyes, Skin, Ingestion, Inhalation.                                                                                            |
| <b>Symptoms of Exposure:</b>               |                                                                                                                               |
| <b>-Eye Contact:</b>                       | Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.                         |
| <b>-Skin Contact:</b>                      | Pain, redness and cracking of the skin.                                                                                       |
| <b>-Inhalation:</b>                        | Nasal discomfort and coughing.                                                                                                |
| <b>-Ingestion:</b>                         | Pain, nausea, vomiting and diarrhea. Contains hydrogen peroxide. Ingestion may result in distention of esophagus and stomach. |
| <b>Immediate, Delayed, Chronic Effects</b> |                                                                                                                               |
| <b>Product Information:</b>                | 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):                 | 2168 mg/kg  |
| ATEmix (dermal):               | 30547 mg/kg |
| ATEmix (inhalation-dust/mist): | 3.8 mg/l    |

### Component Acute Toxicity Information

| Chemical Name                                               | Oral LD50            | Dermal LD50                                  | Inhalation LC50                  |
|-------------------------------------------------------------|----------------------|----------------------------------------------|----------------------------------|
| Water<br>7732-18-5                                          | > 90 mL/kg ( Rat )   | Not Available                                | Not Available                    |
| Hydrogen Peroxide<br>7722-84-1                              | = 1518 mg/kg ( Rat ) | = 2000 mg/kg ( Rabbit ) = 4060 mg/kg ( Rat ) | = 2 g/m <sup>3</sup> ( Rat ) 4 h |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride<br>68424-85-1 | = 426 mg/kg ( Rat )  | Not Available                                | Not Available                    |

|                           |                      |               |                          |
|---------------------------|----------------------|---------------|--------------------------|
| Alcohol<br>64-17-5        | = 7060 mg/kg ( Rat ) | Not Available | = 124.7 mg/L ( Rat ) 4 h |
| Citric Acid<br>77-92-9    | = 3 g/kg ( Rat )     | Not Available | Not Available            |
| Acid Blue 80<br>4474-24-2 | = 3350 mg/kg ( Rat ) | Not Available | Not Available            |

**Carcinogenicity:** The table below indicates whether each agency has listed any ingredient as a carcinogen.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

| Chemical Name                  | Algae/Aquatic Plants | Fish                                                                                                                                                                 | Toxicity to Microorganisms | Crustacea                                                                         |
|--------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------|
| Hydrogen Peroxide<br>7722-84-1 | Not Available        | 16.4: 96 h Pimephales promelas mg/L LC50 18 - 56: 96 h Lepomis macrochirus mg/L LC50 static 10.0 - 32.0: 96 h Oncorhynchus mykiss mg/L LC50 static                   | Not Available              | 18 - 32: 48 h Daphnia magna mg/L EC50 Static                                      |
| Alcohol<br>64-17-5             | Not Available        | 12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through | Not Available              | 9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static |
| Citric Acid<br>77-92-9         | Not Available        | 1516: 96 h Lepomis macrochirus mg/L LC50 static                                                                                                                      | Not Available              | Not Available                                                                     |

**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:** Not Regulated

**UN/ID No:** Non-Hazardous Product

**Special Provisions:** This product qualifies for exemptions outlined in 49CFR 170.150(e)2. Aqueous solutions of alcohol containing 24% of less alcohol by volume and no other hazardous material is not subject to the requirements of the Class 3 Flammable Liquids subchapter if it contains no less than 50% water.

**Special Provisions:** Combustible Liquid materials meet the exception requirements of section 49 CFR 173.150 when individual containers of not more than 1.3 gallons are packaged in a strong outer packaging and ground transportation is utilized. Such containers may be reclassified as "Limited Quantity".

**IMDG:** Not Regulated

**Proper Shipping Name:** Non-Hazardous Product

## 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>                       | Yes |
| <b>Sudden release of pressure hazard:</b> | No  |
| <b>Reactive Hazard:</b>                   | Yes |

**California Proposition 65**

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

**EPA Pesticide Registration Number:** 5741-30

**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. May be fatal if inhaled. Harmful if absorbed through the skin. Harmful if swallowed. Do not get in eyes, on skin or on clothing Wear protective eye wear (goggles/face shield), rubber gloves and protective clothing (coveralls over long-sleeved shirt and long pants; socks and chemical resistant footwear; chemical resistant gloves.),and a NIOSH-approved particulate filtering facepiece respirator with any N, R or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powdered air purifying respirator with HE filters. Do not breathe spray or mist. Wash thoroughly with soap and water after handling and before eating, drinking, smoking tobacco, chewing gum, or using the toilet. Remove contaminated clothing and wash clothing before reuse.

**16. OTHER INFORMATION**

|             |                          |                        |                            |                     |
|-------------|--------------------------|------------------------|----------------------------|---------------------|
| <b>NFPA</b> | <b>Health Hazards: 3</b> | <b>Flammability: 2</b> | <b>Instability: 1</b>      | <b>Special: N/A</b> |
| <b>HMIS</b> | <b>Health Hazards: 3</b> | <b>Flammability: 2</b> | <b>Physical Hazards: 1</b> |                     |

**Revision Date:** 20-Dec-2019  
**Reasons for Revision:** New product

**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**