



# SAFETY DATA SHEET

## 1. Identification

**Product Identifier** **Blue Thunder Powder**

**Other means of identification**

**Product code** PCS-3056

**Recommended use** Carpet care.

**Recommended restrictions** Professional use only.

**Manufacturer/distributor/supplier/importer information**

**Company name** Professional Cleaning Supply

**Address**

**Tulsa** 7925 E. 40<sup>th</sup> St. Suite A  
Tulsa, OK 74145

**Phone** (918) 250-9000

**Oklahoma City** 4301 SW 21<sup>st</sup> St.  
Oklahoma City, OK 73108

**Phone** (405) 681-1822

**Emergency phone number** PERS (800) 633-8253  
24-hour Emergency (800) 633-8253

## 2. Hazard(s) Identification

**Physical hazards** Not classified.

**Health hazards** Acute toxicity, oral Category 4  
Serious eye damage Category 1  
Skin irritant Category 2

**Environmental hazards** Hazardous to the aquatic environment -Acute Category 3

**OSHA defined hazards** Not listed.

**Label elements**



**Signal word** **DANGER**

**Hazard statement** May be harmful if swallowed.  
Causes serious eye damage.  
Causes skin irritation.  
May be toxic to aquatic life.

**Precautionary statement**

**Prevention** Wear eye protection/face protection. Wash hands and exposed skin thoroughly after handling. Wear protective gloves.  
Avoid release to the environment.

**Response** Call a POISON CENTER/doctor/medical professional if you feel unwell.  
**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/doctor/medical professional.  
**IF ON SKIN:** Wash with plenty of water for at least 15 minutes. Specific treatment (see section 4 on the Safety Data Sheet). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.



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**IF SWALLOWED:** Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person.

**Storage** No prescriptive instruction  
**Disposal** No prescriptive instruction  
**Hazard(s) not otherwise classified (HNOC)** None.  
**Supplemental information** None.

### 3. Composition/information on ingredients

| Mixture Component(s)      |             |                            |        |
|---------------------------|-------------|----------------------------|--------|
| Chemical name             | CAS number  | Purpose                    | %      |
| Sodium Chloride           | 7647-14-5   | Builder                    | 35-45% |
| Sodium Sulfate            | 7757-82-6   | Viscosity Increasing Agent | 25-35% |
| Pentasodium Triphosphate  | 7758-29-4   | pH Adjuster                | 5-15%  |
| Sodium Carbonate          | 497-19-8    | Detergent Additive         | 5-10%  |
| Water                     | 7732-18-5   | Solvent                    | 1-5%   |
| Ethoxydiglycol            | 111-90-0    | Solvent                    | 1-5%   |
| d'Limonene                | 5989-27-5   | Solvent                    | 1-5%   |
| Sodium Metasilicate       | 6834-92-0   | Chelating Agent            | 1-5%   |
| Nonylphenol               | 127087-87-0 | Surfactant                 | 0-1%   |
| Tetrasodium Pyrophosphate | 231-767-1   | Buffering Agent            | 0-1%   |
| Sodium Trimetaphosphate   | 7785-84-4   | Processing Aid             | 0-1%   |
| Glycol Ethers             | PROPRIETARY | Solvent                    | <0.1%  |
| Blue Dye                  | PROPRIETARY | Colorant                   | <0.1%  |
| Sodium Hexametaphosphate  | 10124-56-8  | Emulsifier                 | <0.1%  |

### 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.  
**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. Neutralize burns with vinegar. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.  
**Eye contact** Rinse with water for at least 15 minutes. Remove contact lenses if present and easy to do so. Immediately call a physician or transport to hospital.  
**Ingestion** Rinse mouth. Get medical attention immediately. Do not induce vomiting.  
**Most important symptoms/effects, acute and delayed** Can cause serious eye damage. Can cause burning sensation in affected areas. Shortness of breath, respiratory tract irritation or damage.  
**Indication of immediate medical attention and special treatment needed** Provide general support measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.  
**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse. Use with extreme caution.

### 5. Fire-fighting measures

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).



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|  |   |
|--|---|
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this may spread the fire.                         |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.   |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protecting clothing must be worn in case of fire. |
| <b>Fire-fighting equipment/instructions</b>                          | Move containers from fire area if you can do so without risk.                                 |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.    |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.   |

### 6. Accidental release measures

|  |   |
|--|---|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| <b>Methods and materials for containment and cleaning up</b>               | This product is miscible in water.<br><br>Large spills: Place the material in containers using a broom or shovel. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.<br><br>Small spills: Sweep up and put into containers. Clean surface thoroughly with water to remove residual contamination.<br><br>Never return spills to original container for re-use. For waste disposal, see section 13 of the SDS.         |
| <b>Environmental precautions</b>   | Avoid discharge into surface drainage paths and other areas not consistent with package labeling.   |

### 7. Handling and storage

|   |  |
|---|--|
| <b>Precautions for safe handling</b>                                | Avoid breathing dust or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS).  |

### 8. Exposure controls/personal protection

#### Occupational exposure limits

##### Workplace Environmental Exposure Level (WEEL) Guide

| Components                              | Type   | Value                           |
|---|--|---------------------------------|
| D-limonene                              | TWA  | 165 mg/m <sup>3</sup><br>30 ppm |
| <b>Biological limit values</b>          | No data available.   |                                 |
| <b>Appropriate engineering controls</b> | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable |                                 |



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level. It is recommended that users of this product perform a risk assessment to determine the appropriate personal protective equipment.

### Individual protection measures, such as personal protective equipment

|                                       |   |
|---------------------------------------|---|
| <b>Eye/face protection</b>            | Avoid contact with eyes. Wear safety glasses with side shields (or goggles).  |
| <b>Skin protection</b>                |   |
| <b>Hand protection</b>                | The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Suggested protective materials: Nitrile and PVC rubber. |
| <b>Other</b>                          | Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Depending on exposure and use conditions, additional protection may be necessary to prevent skin contact including use of items such as chemical-resistant boots, aprons, arm covers, hoods and/or coveralls.  |
| <b>Respiratory protection</b>         | In case of insufficient ventilation, wear suitable respiratory equipment.   |
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.   |
| <b>General hygiene considerations</b> | When using do not smoke or use chewing tobacco. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.  |

## 9. Physical and chemical properties

|  |                      |
|--|----------------------|
| <b>Appearance</b>                              |                      |
| <b>Physical State</b>                          | Powder               |
| <b>Color</b>                                   | Blue                 |
| <b>Odor</b>                                    | Citrus               |
| <b>Odor threshold</b>                          | Not available        |
| <b>pH</b>                                      | 11-12 (10% solution) |
| <b>Melting/freezing point</b>                  | Not applicable.      |
| <b>Initial boiling point and boiling range</b> | Not applicable.      |
| <b>Flash point</b>                             | Not applicable       |
| <b>Evaporation rate</b>                        | Not available        |
| <b>Flammability</b>                            | Not available        |
| <b>Flammability Limits</b>                     |                      |
| <b>Upper</b>                                   | Not available        |
| <b>Lower</b>                                   | Not available        |
| <b>Vapor pressure</b>                          | Not available        |
| <b>Vapor density</b>                           | Not available        |
| <b>Specific gravity (water=1)</b>              | 2.11                 |
| <b>Solubility in water</b>                     | Soluble.             |
| <b>Partition coefficient (n-octanol/water)</b> | Not available        |
| <b>Auto-ignition temperature</b>               | Not available        |
| <b>Decomposition temperature</b>               | Not available        |
| <b>Viscosity</b>                               | Not available        |



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## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | This product is stable and non-reactive under normal conditions of use. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions. Store in a cool dark place. |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur                                 |
| <b>Conditions to avoid</b>                | Avoid storage in elevated temperatures.                                 |
| <b>Incompatible materials</b>             | Strong acids, concentrated amines, alkaline metals.                     |
| <b>Hazardous decomposition products</b>   | Hydrogen and oxides of nitrogen. In case of fire see section 5.         |

## 11. Toxicological information

|   |   |
|---|---|
| <b>Information on likely routes of exposure</b>                                     |   |
| <b>Ingestion</b>  | Do not ingest. May be harmful if swallowed.                     |
| <b>Inhalation</b>   | Do not inhale. May cause damage to the upper respiratory tract. |
| <b>Skin contact</b>   | Causes serious skin irritation. .                               |
| <b>Eye contact</b>  | Can cause serious eye damage.                                   |
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | Coughing, wheezing, shortness of breath.                        |
| <b>Acute toxicity</b>   | May be harmful if swallowed.                                    |

| Product Blue Thunder Powder (CAS mixture)                                  |                   |                           |
|--|-------------------|---------------------------|
| Exposure Classification  | Route and Species | LD <sub>50</sub>          |
| Acute  | Oral, rat         | >3,700 mg/kg (calculated) |
| Acute  | Dermal, rabbit    | >4,800 mg/kg (Estimated)  |
| *Estimates for product may be based on additional component data not shown |                   |                           |

|   |  |
|---|--|
| <b>Skin corrosion/irritation</b>                                      | Can cause serious skin irritation.   |
| <b>Serious eye damage/ irritation</b>                                 | Can cause serious eye damage.  |
| <b>Respiratory sensitization</b>                                      | Not considered a respiratory sensitizer.   |
| <b>Skin sensitization</b>   | Not considered a skin sensitizer.  |
| <b>Germ cell mutagenicity</b>   | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| <b>Carcinogenicity</b>  | Not considered a carcinogen.   |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b> | Not Listed.  |
| <b>Reproductive toxicity</b>  | No data available.   |
| <b>Specific target organ toxicity – single exposure</b>               | Not classified.  |
| <b>Specific target organ toxicity – repeated exposure</b>             | No data available.   |
| <b>Aspiration hazard</b>  | No data available.   |

## 12. Ecological information

| Ecotoxicity  |   |  |
|--|---|--|
| Product Blue Thunder Powder (CAS mixture)                                  |   |  |
| Aquatic Receptor   | Species                                       | Test Threshold(s) LC <sub>50</sub> /EC <sub>50</sub> |
| Fish   | Fathead minnow ( <i>Pimephales promelas</i> ) | LC <sub>50</sub> = 345 mg/L (estimated)              |
| Crustacea  | Daphnia Magna                                 | EC <sub>50</sub> = >550 mg/L (estimated)             |
| *Estimates for product may be based on additional component data not shown |   |  |



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| <b>Persistence and degradability</b>                              | No data available. Chemicals of this class are not expected to be persistent in an open, aerobic environment   |
| <b>Bio-accumulative potential</b>                                 | Bio-accumulative potential is low.   |
| <b>Partition coefficient n-octanol/water (log K<sub>ow</sub>)</b> | < 3.04 (Estimated)   |
| <b>Mobility in soil</b>   | No data available. Chemicals of these classes are highly water soluble and will partition readily to water and weakly to particles in low-clay soil matrices. They are expected to exhibit moderate to high mobility in saturated and semi-saturated soils |
| <b>Other adverse effects</b>                                      | No data available.   |

### 13. Disposal considerations

|   |   |
|---|---|
| <b>Disposal instructions</b>              | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.  |
| <b>Local disposal regulations</b>         | Dispose in accordance with all applicable regulations   |
| <b>Hazardous waste code</b>               | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. As packaged, this product is not believed to meet criteria defining RCRA hazardous wastes when disposed. (40 CFR Part 261, Subpart C). Before selecting disposal method, ensure that the waste materials have been properly assessed and, as necessary, tested to confirm regulatory status. |
| <b>Waste from residues/unused product</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. (see: Disposal instructions).   |
| <b>Contaminated packaging</b>             | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may contain product residue, follow label warnings even after container is emptied.   |

### 14. Transport information

**DOT** Not regulated as dangerous goods.

### 15. Regulatory information

#### US federal regulations

**SARA 302 Extremely hazardous substance** Not listed.

**SARA 304 Emergency release notification** Not listed.

#### SARA 311/312 Hazard Categories

Immediate Hazard - Yes

Delayed Hazard – No

Fire Hazard – No

Pressure Hazard – No

Reactivity Hazard – No

**SARA 313 (TRI reporting)** Not listed.

**California Proposition 65** This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to , [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**16. Other information, including date of preparation or last revision**

Issue date 4/24/2015  
Revision date 11/23/2020  
Version # 3

HMIS® ratings Health: 2  
Flammability: 1  
Physical hazard: 0

|                     |                          |
|---------------------|--------------------------|
| HEALTH              | 2                        |
| FLAMMABILITY        | 1                        |
| REACTIVITY          | 0                        |
| PERSONAL PROTECTION | <input type="checkbox"/> |

NFPA ratings Health: 2  
Flammability: 1  
Instability: 0



**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge, and have been obtained from resources believed to be reliable. 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 related 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 by the text.

**Revision information** Updated composition and HMIS/NFPA ratings in accordance with industry standards