



# Safety Data Sheet

Revision Date: May 27, 2025

Compliant with OSHA Hazard Communication Standard (29 CFR 1910.1200) and GHS

## 1. Product and Company Identification

### Product Identifier

- **Product Name:** Turf Cleaner
- **Product Number:** 1C036
- **Recommended Use:** Surface cleaner for turf
- **Recommended Restrictions:** For commercial, industrial and household usage.

### Manufacturer/Supplier:

Johnson Labs Inc.  
121 Pike County Lake Rd.  
Troy, AL 36079

**24 Hour Emergency Phone Number:** 1-800-424-9300 / 703-527-3887

**CCN:** 12021

## 2. Hazards Identification

### GHS Classification:

- Oxidizing Liquid Category 3
- Skin Corrosion/Irritation Category 2
- Serious Eye Damage/Eye Irritation Category 1

### GHS Label Elements:

- **Signal Word:** Danger
- **Symbols:** Exclamation Mark, Corrosion, Flame Over Circle
- **Hazard Statements:**
  - Causes skin irritation.
  - Causes serious eye damage.

### Precautionary Statements:

- **Prevention:**
  - Wear chemical-resistant gloves, protective clothing, eye protection, and face protection.
  - Wash hands thoroughly after handling.
- **Response:**
  - If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.
  - 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.
  - In case of fire: Use water spray, foam, dry chemical, or CO2 to extinguish.
- **Storage:** Store in a well-ventilated place. Keep cool. Store locked up.
- **Disposal:** Dispose of contents/container to an approved waste disposal plant in accordance with local, regional, and national regulations.

**Hazards Not Otherwise Classified:** Not applicable

**Other Information:** Not applicable

### 3. Composition/Information on Ingredients

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation.

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
Deionized Water	None	No	7732-18-5	76%
Hydrogen Peroxide (35%)	None	No	7722-84-1	21%
Fragrance	None	Yes	Not assigned	1%
Non-ionic surfactant	None	No	9002-93-1	3.2%

### 4. First Aid Measures

**First Aid Measures for Different Exposure Routes:**

- **Eye Contact:** Rinse cautiously with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.
- **Skin Contact:** Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Drink plenty of water. Seek medical attention if symptoms persist.
- **Inhalation:** Remove to fresh air. If breathing is difficult, seek medical attention.

**Most Important Symptoms/Effects, Acute and Delayed:** Severe eye irritation, possible corneal damage, skin irritation, respiratory irritation if inhaled as a mist.

**Indication of Immediate Medical Attention and Special Treatment Needed:**

- **Notes to Physician:** Treat symptomatically. Consider oxygen administration for inhalation exposure to hydrogen peroxide mist.

## 5. Fire-Fighting Measures

**Suitable Extinguishing Media:** Water spray, foam, dry chemical, or carbon dioxide (CO<sub>2</sub>).

**Unsuitable Extinguishing Media:** Do not use high-pressure water jets, as they may spread oxidizing vapors.

**Special Hazard:** Product contains hydrogen peroxide, an oxidizer that may intensify fire.

**Special Protective Equipment for Fire-Fighters:** Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Specific Hazards Arising from the Chemical:** May decompose releasing oxygen, which can intensify fire.

## 6. Accidental Release Measures

**Personal Precautions, Protective Equipment, and Emergency Procedures:**

- **Personal Precautions:** Use chemical-resistant gloves, protective clothing, and eye/face protection. Ensure adequate ventilation.
- **Advice for Emergency Responders:** Use personal protective equipment as required. Evacuate unnecessary personnel.

**Methods and Materials for Containment and Cleaning Up:**

- **Containment:** Prevent further leakage or spillage if safe to do so. Contain with non-combustible absorbent material.
- **Cleaning Up:**
  - For small spills: Absorb with inert material (e.g., dry sand or earth) and place in a chemical waste container.
  - For large spills: Dike far ahead of liquid spill for later disposal. Absorb with non-combustible inert material. Ventilate area and wash spill site after material pickup is complete.

## 7. Handling and Storage

**Precautions for Safe Handling:**

- **Advice on Safe Handling:** Handle in a well-ventilated area. Wear chemical-resistant gloves, protective clothing, and eye protection. Avoid contact with skin, eyes, and clothing. Do not mix with reducing agents, organic materials, or combustibles.

**Conditions for Safe Storage, Including Any Incompatibilities:**

- **Storage Conditions:** Store in a cool, dry, well-ventilated place away from heat sources, combustible materials, and incompatible substances. Keep container tightly closed. Store locked up.

- **Incompatible Products:** Reducing agents, organic materials, metals, alkalis, combustible materials.

## 8. Exposure Controls/Personal Protection

### Control Parameters - Exposure Guidelines:

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL
Deionized Water	7732-18-5	Not applicable	Not applicable
Hydrogen Peroxide	7722-84-1	1 ppm TWA	1 ppm TWA; 1.4 mg/m <sup>3</sup> TWA
Fragrance	Not assigned	Not established	Not established
Non-ionic Surfactant	9002-93-1	Not established	Not established

**No relevant exposure guidelines for other ingredients.**

### Exposure Controls:

- **Engineering Measures:** Ensure adequate ventilation, especially in confined areas. Use local exhaust ventilation to maintain airborne levels below exposure limits.
- **Personal Protective Equipment:**
  - **Eye Protection:** Wear safety goggles or face shield to prevent eye contact.
  - **Hand Protection:** Wear chemical-resistant gloves (e.g., nitrile or neoprene).
  - **Skin and Body Protection:** Wear suitable protective clothing, such as chemical-resistant aprons.
  - **Respiratory Protection:** Use NIOSH-approved respirators if ventilation is inadequate or mist is generated.

## 9. Physical and Chemical Properties

Property	Value
Appearance/Physical State	Clear liquid
Color	Colorless
Odor	Light Fragrance
pH	2.5-3.5 (estimated due to citric acid)
Melting Point/Freezing Point	Approx. 0°C/32°F
Boiling Point/Boiling Range	Approx. 100°C/212°F
Flash Point	None to boiling
Evaporation Rate	Similar to water
Flammability (solid, gas)	Not applicable
Upper Flammability Limit	Not flammable
Lower Flammability Limit	Not flammable
Vapor Pressure	Similar to water (~23 mmHg at 20°C)

Property	Value
Vapor Density	Not determined
Specific Gravity	~1.03 (calculated)
Solubility(ies)	Soluble in water
Partition Coefficient	Not determined
Autoignition Temperature	Not applicable
Decomposition Temperature	Not determined
Viscosity	Similar to water
VOC Content (%)	Complies with US, state, and federal regulations for VOC content in consumer products

## 10. Stability and Reactivity

- **Reactivity:** Reactive due to hydrogen peroxide; may cause or intensify fire when in contact with combustibles.
- **Stability:** Stable under recommended storage conditions. Hydrogen peroxide may decompose over time, releasing oxygen.
- **Hazardous Polymerization:** Does not occur.
- **Hazardous Reactions:** May react with reducing agents, organic materials, or metals, releasing oxygen or heat.
- **Conditions to Avoid:** Heat, sparks, open flames, direct sunlight, and contact with incompatible materials.
- **Materials to Avoid:** Reducing agents, organic materials, metals (e.g., iron, copper), alkalis, combustible materials.
- **Hazardous Decomposition Products:** Oxygen, water, and possible trace amounts of organic vapors from fragrance.

## 11. Toxicological Information

### Product Information - Likely Routes of Exposure:

- **Inhalation:** Avoid inhalation of mist or vapors.
- **Skin Contact:** Avoid contact with skin; may cause irritation.
- **Ingestion:** Do not ingest; may cause gastrointestinal irritation.
- **Eye Contact:** Avoid contact with eyes; causes serious eye damage.

### Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

- **Acute Toxicity:** Not determined for the mixture.
- **Skin Corrosion/Irritation:** Causes skin irritation.
- **Serious Eye Damage/Eye Irritation:** Causes serious eye damage.
- **Skin Sensitization:** Not determined.
- **Respiratory Sensitization:** Not determined.
- **Germ Cell Mutagenicity:** Not expected to be mutagenic.

- **Neurological Effects:** Not determined.
- **Reproductive Toxicity:** Not determined.
- **Developmental Toxicity:** Not determined.
- **Teratogenicity:** Not determined.
- **STOT-Single Exposure:** Not determined.
- **STOT-Repeated Exposure:** Not determined.
- **Target Organ Effects:** Eyes, skin, respiratory system.
- **Aspiration Hazard:** Not determined.
- **Carcinogenicity:** Not classified as carcinogenic.

#### Component Information:

Chemical Name	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Deionized Water	7732-18-5	>90000 mg/kg (rat)	Not determined	Not determined
Hydrogen Peroxide	7722-84-1	1518 mg/kg (rat)	2000 mg/kg (rabbit)	2 mg/L (4 hr, rat)
Fragrance	Not assigned	Not determined	Not determined	Not determined
Non-ionic Surfactant	9002-93-1	1800 mg/kg (rat)	8000 mg/kg (rabbit)	Not determined

## 12. Ecological Information

- **Ecotoxicity:** Hydrogen peroxide is toxic to aquatic life at high concentrations but degrades rapidly. Citric acid and non-ionic surfactant may have moderate environmental impact.
- **Persistence and Degradability:** Hydrogen peroxide and citric acid are readily biodegradable. Non-ionic surfactant may persist in the environment.
- **Bio-accumulative Potential:** Not expected to bioaccumulate significantly.
- **Mobility and Other Adverse Effects:**
  - **Deionized Water:** Highly mobile in soil due to its ability to move freely through soil pores.
  - **Hydrogen Peroxide:** Highly mobile; degrades rapidly in soil and water to water and oxygen.
  - **Fragrance:** Not available.
  - **Non-ionic Surfactant:** Not available; may persist in aqueous environments.

## 13. Disposal Considerations

- **Waste from Residues/Unused Products:** Dispose in accordance with applicable regional, national, and local laws and regulations. Neutralize hydrogen peroxide before disposal if required by local regulations.
- **Contaminated Packaging:** Dispose in accordance with applicable regional, national, and local laws and regulations.
- **California Hazardous Waste Codes:**
  - **Deionized Water:** Not classified as hazardous waste.
  - **Hydrogen Peroxide:** Not specifically listed; may be classified as reactive waste (D003).

- **Fragrance:** Not specifically listed.
- **Non-ionic Surfactant:** Not specifically listed.

## 14. Transport Information

- **DOT:** Not regulated for quantities <119 gallons (450 liters) per 49 CFR 173.150.
- **IMDG:** Not regulated for quantities <119 gallons (450 liters).
- **IATA:** Not regulated for quantities <119 gallons (450 liters).

## 15. Regulatory Information

### U.S. Federal Regulations:

- **SARA 313:** This product does not contain chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and Title 40 of the Code of Federal Regulations, Part 372.
- **CERCLA:** This material contains the following substances regulated under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40CFR 302):

Chemical Name	CAS-No	Hazardous Substances RQs	Extremely Hazardous Substances RQs	CERCLA/SARA 302 TPQ
Hydrogen Peroxide	7722-84-1	Not listed	1000 lbs (as 52-70% solution)	1000 lbs

- **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61):** None.
- **Clean Water Act:** This product contains no substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**California Proposition 65:** This product is not subject to warning labeling under California Proposition 65 based on available data for listed components.

### U.S. State Regulations (RTK):

Chemical Name	CAS-No	New Jersey	Pennsylvania
Hydrogen Peroxide	7722-84-1	Listed	Listed

### International Inventories:

- **United States:** Listed
- **Canada:** Listed
- **Legend:**
  - TSCA: Listed
  - CEPA: Listed

### Chemical Inventory Status:

- **Deionized Water (CAS No. 7732-18-5):**
  - Issuing Date: May 27, 2025
  - Revision Date: May 27, 2025

- TSCA (USA): Listed
- DSL/NDSL (Canada): Listed
- EINECS/ELINCS (Europe): Listed
- ENCS (Japan): Listed
- IECSC (China): Listed
- KECL (Korea): Listed
- PICCS (Philippines): Listed
- AICS (Australia): Listed
- **Hydrogen Peroxide (CAS No. 7722-84-1):**
  - Issuing Date: May 27, 2025
  - Revision Date: May 27, 2025
  - TSCA (USA): Listed
  - DSL/NDSL (Canada): Listed
  - EINECS/ELINCS (Europe): Listed
  - ENCS (Japan): Listed
  - IECSC (China): Listed
  - KECL (Korea): Listed
  - PICCS (Philippines): Listed
  - AICS (Australia): Listed
- **Fragrance (CAS No. Not assigned):**
  - Issuing Date: May 27, 2025
  - Revision Date: May 27, 2025
  - TSCA (USA): Components may be listed
  - DSL/NDSL (Canada): Components may be listed
  - EINECS/ELINCS (Europe): Components may be listed
  - ENCS (Japan): Components may be listed
  - IECSC (China): Components may be listed
  - KECL (Korea): Components may be listed
  - PICCS (Philippines): Components may be listed
  - AICS (Australia): Components may be listed
- **Non-ionic Surfactant (CAS No. 9002-93-1):**
  - Issuing Date: May 27, 2025
  - Revision Date: May 27, 2025
  - TSCA (USA): Listed
  - DSL/NDSL (Canada): Listed
  - EINECS/ELINCS (Europe): Listed
  - ENCS (Japan): Listed
  - IECSC (China): Listed
  - KECL (Korea): Listed
  - PICCS (Philippines): Listed
  - AICS (Australia): Listed

## 16. Other Information

### HMIS Ratings:

- Health hazard: 2
- Flammability: 0
- Physical hazard: 1

### NFPA Ratings:

- Health hazard: 2
- Flammability: 0
- Instability: 1

**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 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 SDS**