

**RESOLUTION 21-123**

**A RESOLUTION TO AWARD THE CONTRACT TO HAWKINS, INC. FOR THE PURCHASE OF HYDROGEN PEROXIDE 34%**

**WHEREAS**, the City of Spring Hill's Water Treatment Plant utilizes hydrogen peroxide for the pretreatment of water for human consumption; and

**WHEREAS**, currently the plant is utilizing 34 % hydrogen peroxide for the oxidation of metals; and

**WHEREAS**, an invitation for bid was advertised with three responses from Hawkins, Inc., CITCO Water and UnivarSolutions; and

**WHEREAS**, the chemicals will be funded from the Water and Sewer fund and are budgeted in the FY 2021-2022 budget; and

**WHEREAS**, City staff recommends awarding the contract to Hawkins, Inc. for the purchase of hydrogen peroxide 34% for the Water Treatment Plant in the amount of \$19,596.28.

**NOW, THEREFORE BE IT RESOLVED**, the City of Spring Hill Board of Mayor and Aldermen:

1. Award the contract for the purchase of hydrogen peroxide 34% for the Water Treatment Plant to Hawkins Inc. at a total yearly bid cost of \$19,596.28.
2. Authorize the Mayor to sign the contract, attached herein.

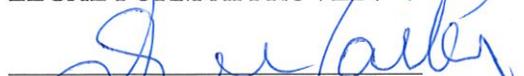
**Passed and Adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on the 16<sup>th</sup> day of August, 2021.**

  
Jim Hagan, Mayor

ATTEST:

  
April Goad, City Recorder

LEGAL FORM APPROVED:

  
Patrick Carter, City Attorney



**REQUEST:** *Approval of Resolution 21-123*

**SUBMITTED BY:** Jeremy Vanderford, Water Treatment Plant Superintendent

**DATE:** August 16, 2021

**RE:** To award the contract to Hawkins, Inc. for the purchase of Hydrogen Peroxide 34% and to authorize the Mayor to execute the contract

**ATTACHMENTS:** Contract

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**PURPOSE:**

The purpose of this resolution is to award the contract to Hawkins, Inc. for the purchase of Hydrogen Peroxide 34% and to authorize the Mayor to execute the contract.

**BACKGROUND:**

The City of Spring Hill Water Treatment Plant utilizes hydrogen peroxide 34 % for the pre-treatment of water for human consumption. This product will be used in the oxidation process of drinking water. The product is NSF approved and compliant with drinking water standards.

An invitation to bid was advertised. Three bid responses were received. The responding vendors were Hawkins, Citco, and Univar. The bid received from Hawkins, Inc. meets the specifications and requirements set forth through the bid process and is the recommended vendor.

**FINANCIAL IMPACT:**

The proposed purchase price for hydrogen peroxide 34 % was budgeted in line 410-52110-320, funded through the Water and Sewer Fund with a total estimated yearly cost of \$19,596.28 (estimated usage of 4453.7 gallons \* 10 lbs per gallon \* \$0.44/lb)

**STAFF RECOMMENDATION:**

Staff recommends approval of Resolution 21-123 to award the contract to Hawkins, Inc. and to authorize the Mayor to sign the contract for the purchase of Hydrogen Peroxide at a total cost of \$0.44 per pound.

**CITY OF SPRING HILL, TENNESSEE**  
**WATER DEPARTMENT**  
**INVITATION TO BID**  
**SPECIFICATIONS AND CONTRACT DOCUMENTS**  
**FOR PURCHASE OF HYDROGEN PEROXIDE, 34 %**  
**2021-52110-02**



Bid packets are available at: [www.springhilltn.org](http://www.springhilltn.org). The City of Spring Hill will advertise this bid until 2:00 P.M. on Thursday, August 5, 2021. Completed, sealed bid packets may be dropped off at Spring Hill City Hall, 199 Town Center Parkway, Spring Hill, TN or mailed to the City of Spring Hill, PO Box 789, Spring Hill, Tennessee, 37174. Attention: April Goad, City Recorder and marked "Bid for WATER PLANT HYDROGEN PEROXIDE 34%"

**The City reserves the right to reject any or all Proposals regarding the services, to waive irregularities and/or Informalities in any Proposal, and to make an award in any manner, consistent with law, deemed in the best interest of the City.**

## INVITATION TO BID – HYDROGEN PEROXIDE, 34%

The City of Spring Hill Water Treatment Plant will be accepting sealed bids for Hydrogen Peroxide 34%. Bidders shall submit sealed quotations no later than 2:00 p.m. (CST), Thursday, August 5, 2021, at which time bids will be opened and read aloud. Bidding documents may be obtained at Spring Hill City Hall during regular business hours or [www.springhilltn.org](http://www.springhilltn.org).

Bids should be mailed, or hand delivered to:

April Goad, City Recorder  
City of Spring Hill  
Label Envelope/Package: Invitation to Bid  
WATER PLANT HYDROGEN PEROXIDE 34%  
199 Town Center Parkway (for hand-delivery or courier services)  
P.O. Box 789 (for regular mailing services)  
Spring Hill, TN 37174

### PROJECTED TIMELINE:

Invitation To Bid Release	July 22, 2021
Addendum release date (if applicable)	July 30, 2021
Bids Due	August 5, 2021 at 2:00 p.m. CST
Selection of Recommended Vendor	August 5, 2021
BOMA voting meeting	August 16, 2021

### SCOPE:

The Water Department of the City of Spring Hill is seeking sealed bids to establish a contract for the purchase of hydrogen peroxide 34%. This product will be used in the disinfection process of drinking water and must be certified to meet the NSF/ANSI 60 Standards and any other required drinking water standard at the time of bid. Annual usage is estimated to be 4,700 gallons, though the City does not guarantee the annual quantity to be purchased.

### GENERAL CONDITIONS:

- 1) **Acceptance of Bids:** The City of Spring Hill reserves the right to reject any and all bids, to waive any informal technicalities or defects, the scope and nature of which it shall be sole judge, in any bid, insofar as such technicality or defects do not legally, materially or substantially change such bid.

The City shall have ninety (90) days from bid opening date in which to accept bid.

- 2) **Error in Bid:** In case of an error in the extension prices in the bid, the unit price governs. No bid shall be altered, amended or withdrawn, unless the acceptance date has expired, after the opening date of bids. Negligence on the part of the bidder in preparing the bid confers no right for withdrawal of the bid after it has been opened.

- 3) **Discount Period:** Time in connection with any discount offered will be computed from the date of delivery, or the date correct invoices are received, whichever is later. Discounts other than "Time Discounts" shall be shown on the face of the proposal sheet under "Terms".
- 4) **Sample of Materials:** Samples of items, when requested, must be furnished free of expense to the City, at the time bids are opened or later, if such are called for after the bids are opened. If such samples are not destroyed in the process of sampling, they will be returned at the bidder's expense.
- 5) **Signatures on Bids:** Each bid must contain the full name and business address of the bidder. Any person signing a proposal sheet for himself or as agent, employee or officer of another must show his title and, if requested by the City, shall furnish proof of his authority to make such proposal.
- 6) **Alternate Bids:** Alternate bids will be considered providing such items that appear on such bids meet specifications. Where equivalent items are bid upon, said City reserves the sole right in determining whether they meet specifications.
- 7) **Bid Sheets:** Bidders shall use the bid sheets furnished by the City. Failure to submit this sheet as required shall render the proposal invalid. Bid sheets must contain prices on per unit and aggregate basis and the total amount of the bid must be stated on the bid sheet.
- 8) **Federal or State Sales, Excise or Use Tax:** Every bid shall separately state and set forth, therein the amount of any and all Federal and State sales, excise or use taxes included in the bid prices. If any such taxes are included in the prices bid, the City reserves the right in making the award to deduct any amount of such taxes thereof.
- 9) **Delivery:** The number of calendar days in which delivery will be made after contract is executed and purchase order placed shall be stated in the bid. When the bidder states no time delivery, it is understood and agreed that delivery is to be made within fifteen (15) days after receipt of order, unless otherwise stated in the specifications.
- 10) **Compliance:** Contractor shall abide by all federal, state and local laws and statues and obtain all permits required in number fifteen (15) of these conditions.
- 11) **Specifications:** It is understood that reference to attached specifications shall be sufficient to make the terms of such specifications binding on the contractor. In some instances, the name of the manufacturer, a special brand, or make of an item is used in describing the item or items desired; but this does not restrict the bidder to that manufacturer or specific article, this means being used simply to indicate the character or quality of the article or service desired; but the articles on which the proposal is submitted must be equal to that specified, and a statement to that effect shall be made a part of the proposal. Where conflict occurs between the requirement or the General Conditions and the specifications, the requirements of the specifications will govern.
- 12) **Inspection:** Final inspection and acceptance or rejection will be made at the time of delivery, but all products and workmanship shall be subject to inspection and test at all times and places. The right is reserved to reject articles that contain defective material and workmanship. Rejected materials shall be removed by and at the expense of the

contractor promptly after notification of rejection. The City shall not be obligated to pay the full price for any items that do not meet specifications; however, payment may be made at a proper reduction in price.

- 13) **Bid Opening:** Bids may be mailed or delivered to April Goad, City Recorder of the City of Spring Hill, Tennessee. All bids will be opened and publicly read at a time specified on the Bid Sheet. Bids received after the specified time for opening, as shown on the invitation to bid, will not be accepted.
- 14) **Cancellation:** The City reserves the right to cancel an accepted bid or contract in whole or in part due to nonperformance or defective products.
- 15) **Permit Requirements:** Successful bidder will be responsible for securing any necessary permits for complying with all required inspections whether local state or federal.
- 16) **Multi-Year Contracts:** The City reserves the right to enter into a multi-year contract with the awarded vendor not to exceed an aggregate period of three years. The City further has the right to terminate any multi-year contract due to non-appropriation of funds.
- 17) **Financial Statements:** Financial statements will be submitted upon request.
- 18) **Term of Payment:** Payment will be made in full after the satisfactory receipt of goods, materials, supplies, and equipment. Executed contracts must specifically state if there is any partial payment or other deviation from this method of payment.
- 19) **Title VI Policy-** The City of Spring Hill will not discriminate in the purchase of all goods and services on the basis of race, color, religion, sex, national origin, age, disability or any other lawfully protected classification. Verbal quotations or quotations received after the closing date will not be accepted. The City of Spring Hill reserves the right to reject any and all bids, to waive technicalities or informalities and to accept any bid deemed in the best interest of the City of Spring Hill

## 20) **Complaints – Vendors**

Vendors shall have the right to present a complaint, dispute or grievance concerning unfair treatment, contracts, deliveries, payments, restrictions, and other incidents. The following steps are intended to provide uniform procedures for a vendor to express a problem and obtain remedy.

Step One - Vendor must file a grievance with the City Recorder of the City of Spring Hill no later than seven (7) calendar days after the occurrence of the dispute or incident. The complaint must be in writing and include all supporting data and desired solution or remedy. The Finance Director will review the complaint with the user department and provide a written reply within forty-five (45) days to the vendor.

Step Two – If the vendor is not satisfied with the Finance Director's response, the vendor may appeal in writing to the City Administrator, who shall with the advice of the Finance Director and/or City Attorney, make a written determination to all parties involved. The City Administrator's decision shall be final.

### SPECIAL CONDITIONS

- 1) Material Data Safety Sheets must be supplied with the initial shipment.
- 2) For product substitutions, the vendor must agree to furnish representative samples for testing. If full scale testing of any product appears desirable, the vendor and the City may negotiate a contract for a 30-day trial.
- 3) Consideration of alternative products will be optional on the part of the City and in no way obligates the City to consider, test, or accept any product.
- 4) Vendor shall provide reasonable technical assistance in the event of a product problem.
- 5) Bid prices shall be FOB Spring Hill Water Treatment Facility and shall be quoted on a per pound basis.

### INSURANCE

The awarded vendor, if requested by the City, shall purchase and maintain in force, at his own expense, such insurance as will protect him and the City from claims which may arise out of or result from the vendor's execution of the work, whether such execution be by himself, his employees, agents, subcontractors, or by anyone for whose acts any of them may be liable. The insurance coverage shall be such as to fully protect the Owner, the City and the general public from any and all claims for injury and damage resulting by any actions on the part of the contractor or his forces as enumerated above. The awarded vendor, if requested by the City, shall furnish a copy of an original Certificate of Insurance,  naming City of Spring Hill, TN as an additional insured. Should any of the policies be cancelled before the expiration date, the issuing company will mail 30 days written notice to the certificate holder. The vendor shall furnish insurance in satisfactory limits, and on forms and of companies that are acceptable to the City of Spring Hill, TN and shall require and show evidence of insurance coverage on behalf of any subcontractors (if applicable), before entering into any agreement to sublet any part of the work to be done under any bid award.

The following insurance requirements are the minimum that will be acceptable:

1. Workmen's Compensation Insurance – State statutory limits
2. Commercial General Liability - Including products and completed operations coverage and contractual liability on the amount of \$1,000,000 CSL (combined single limit).
3. Commercial Automobile Liability including owned, non-owned and hired car in the amount of \$500,000 CSL.

**SPECIFICATIONS AND REQUIREMENTS**

Products or brands will be considered and will require product testing by the Water Treatment Facility in order to determine if the product can deliver equivalent performance with the same quantity used. Failure to meet the performance testing will disqualify the product from consideration.

Purity shall meet or exceed these specifications listed.

<b>Chemical &amp; Physical Requirements</b>	
Product	Hydrogen Peroxide, 34%
Type	NSF approved
Appearance	Liquid Colorless
<b>LABELING</b>	
Each Container shall be clearly labeled in accordance with EPA, OSHA, and DOT Regulations	
<b>PACKAGING</b>	
Container Size	300-gallon Totes
Container Deposit	City will not be responsible for container Deposits
<b>DELIVERY</b>	
Deliveries shall be made in a safe and reasonable manner such that DOT, OSHA and other regulatory codes are not violated. Delivery will be made to the Raw Water Intake at 2061 Carpenter Bridge Road, Columbia TN 38401. No Semi Trucks allowed. All deliveries will be in compliance with the City of Spring Hill Policy. All Tote deliveries will be unloaded by supplier utilizing an electric pallet jack.	
<b>PRODUCT FAILURE</b>	
In the event that any product fails to meet specifications, the vendor shall, at no expense to the City, remove the unused portion of the product and refund the purchase price of such unused portion to the City	
Containers dropped during delivery, and/or leaking, corroded, damaged, or suspect containers shall be deemed unacceptable and considered as product failure.	
<b>PRICING</b>	
Bids shall be quoted as price per pound delivered to the City of Spring Hill Water Treatment Plant Raw Water Intake	
Bids shall be fixed for a period of 12 months from the date of the bid opening. Price adjustments will be considered thereafter.	

**INVOICING**

The vendor shall invoice the City of Spring Hill, TN Water Treatment Plant. All invoices shall identify date of delivery, product delivered, unit quantity delivered, price per unit, and total per product delivered and finally total invoice price. Materials shall be delivered prepaid and invoices shall include all freight charges.

## PAYMENT

Payment will be made by the Finance Department upon the following conditions:

1. Delivery and acceptance of products ordered.
2. Receipt of properly completed invoice by the Water Superintendent.
3. Acceptance of the product and terms and conditions of the invoice as evidenced by the signature of the Water Superintendent on the invoice
4. Within 30 days provided all other conditions of payment have been satisfied.

## AWARD

While pricing will be one of the determining factors in the award, it is equally important that:

1. The product offered complies with specifications
2. The product performs the intended function without any damage to or degrading of the plant operations.
3. The amount of product required to achieve the desired results will also factor into the final award decision.
4. Any bid award shall be for a period of one year with the City retaining the option to renew for two additional one-year periods.
5. Bids shall be fixed for the initial award period.
6. Price adjustments for any subsequent renewal period will be considered provided the adjustment is based upon a price increase from the manufacturer and not an increase in profit margins.
7. The vendor shall notify the Water Superintendent and Finance Director for the City of Spring Hill 90 days in advance of any intended price increase.

The awarded vendor will be required to execute a requirements agreement which shall incorporate the terms and conditions of this Invitation to Bid and the vendor's response.

**RESPONSE TO INVITATION TO BID  
CITY OF SPRING HILL- HYDROGEN  
PEROXIDE 34%**

**Manufacturer of Hydrogen Peroxide 34%:**

Hawkins, Inc

**Brand:**

Hawkins, Inc.

**Fixed price per pound for 12-month period from date of award \$** 0.44 /per pound

**Are you willing to consider an extension of the award beyond an initial 12-month period?**      Yes   X   No (Due to uncertain market conditions)

**Are the terms and conditions for extending an award attached?**   NA  

**Have you attached the product specifications?**   Yes  

In compliance with this Invitation for Bid for Hydrogen Peroxide 34% and subject to all conditions thereof, the undersigned offers and agrees to furnish any or all items and/or services upon which prices are quoted, at the price quoted as specified above. My signature certifies that the accompanying bid is not the result of or affected by, any act of collusion with another person or company engaged in the same line of business or commerce, or any act of fraud punishable under the Laws of the State of Tennessee or the United States. Furthermore, I understand that fraudulent and collusive bidding is a crime and can result in fines, prison sentences, and civil damage awards. I hereby certify that I am authorized to sign this bid for the bidder.

**Company Name:** Hawkins, Inc.

**Signature of Vendor**



**Name (type/print):** Douglas Lange

**Title:** Vice President

**Date:** 7/28/2021

IRAN DIVESTMENT ACT

A person engages in investment activities in Iran if:

- (1) The person provides goods or services of twenty million dollars (\$20,000,000) or more in the energy sector of Iran, including a person that provides oil or liquefied natural gas tankers, or products used to construct or maintain pipelines used to transport oil or liquefied natural gas, for the energy sector of Iran; or
- (2) The person is a financial institution that extends twenty million dollars (\$20,000,000) or more in credit to another person, for forty-five (45) days or more, if that person will use the credit to provide goods or services in the energy sector in Iran and is identified on a list created pursuant to § 12-12-106, as a person engaging in investment activities in Iran as described in this section.

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to Tennessee Code Annotated § 12-12-106."

Vendor Name: Hawkins, Inc.

Vendor Signature:  Date: 7/28/2021

**AGREEMENT TO SUPPLY  
Hydrogen Peroxide 34 %  
CONTRACT #**

**THIS AGREEMENT** is dated as of the \_\_\_\_\_ day of \_\_\_\_\_, 2021, by and between the City of Spring Hill, Tennessee (hereinafter called City) and Hawkins, Inc. (hereinafter called Vendor).

City and Vendor, in consideration of the mutual covenants hereinafter set forth agree as follows:

**Article 1. PRODUCT**

Vendor agrees to furnish hydrogen peroxide 34% as described below inclusive of delivery costs to the City of Spring Hill Water Treatment Plant Department at 2061 Carpenter Bridge Road, Spring Hill, TN, 37174. Product packaging and delivery shall be consistent with the terms and conditions as further stated in the contract documents

**Article 2. PRODUCT SUBSTITUTION AND TESTING**

In the event that the product bid is no longer available or the formulation of the product changes in anyway, the vendor must notify the City of the change and furnish samples for testing by the City prior to shipment of the substituted product. The City shall not be required to accept any substituted or reformulated product.

Notice of product change or substitution shall be made to the City as soon as reasonably possible by the vendor.

**Article 3. CITY.**

All purchases are being made on behalf of the City of Spring Hill Water Department. The Department Superintendent shall act as City's representative, assume all duties and responsibilities and have the rights and authority assigned to City in the Contract Documents in connection with completion of the Work in accordance with the Contract Documents.

**Article 4. CONTRACT TERMS.**

- 4.1 The agreement shall become effective upon execution by both parties and shall be found herein.
- 4.2 Prices shall be fixed for a period of one-year starting with the effective date of agreement.

## **Article 5. CONTRACT RENEWAL**

- 5.1 The contract shall automatically renew on the anniversary of the effective date of agreement for a period of one year unless terminated by a 90-day written notice from the City to Vendor.
- 5.2 Vendor shall notify the City at least 90 days in advance of any intended price increase.
- 5.3 Any price increase shall be based upon an increase in cost by the manufacturer and not based upon increased profit margin.
- 5.4 Automatic renewals of this agreement shall not extend beyond June 30, 2024.

## **Article 6. PAYMENT PROCEDURES.**

The Spring Hill Water Department shall be invoiced for chemicals properly ordered, shipped and received. All invoice shall be addressed to Spring Hill Water Department, Attn: Accounts Payable, P.O. Box 789 Spring Hill, TN 37174.

Payment will be made by City of Spring Hill check to be issued within 30 days for proper invoicing.

## **Article 7. CONTRACT DOCUMENTS.**

The Contract Documents which comprise the entire agreement between City and Vendor concerning the Work consist of the following:

- 7.1 This Agreement
- 7.2 Invitation to Bid - Solicitation #2021-52110-02
- 7.3 Vendor's Bid Response

## **Article 8. MISCELLANEOUS.**

- 8.1 City and Vendor each binds itself, its partners, successors, assigns and legal representatives in respect to all covenants, agreements and obligations contained in the Contract Documents.
- 8.2 Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon City and Vendor who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.
- 8.3 This Agreement shall be governed and construed in accordance with the laws of the State of Tennessee. In the event of any legal action to enforce or interpret this Agreement, the sole and exclusive venue shall be a court of competent jurisdiction

located in Maury County, Tennessee.

8.4 No amendment or modification of this Agreement shall be effective unless or until executed in writing by the parties hereto.

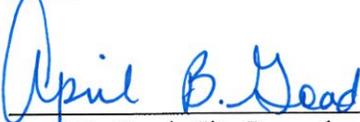
8.5 This Agreement and the attachment to this Agreement or references thereto shall together constitute the entire agreement and understanding by and between the City and the Vendor with respect to the services herein referred to, and no representations, promises, agreements or understandings, written or oral, not herein contained shall be of any force and effect.

**IN WITNESS WHEREOF**, City and Vendor have signed this Agreement in duplicate. One counterpart each has been delivered to City and Vendor. All portions of the Contract Documents have been signed, initialed or identified by City and Vendor on their behalf.

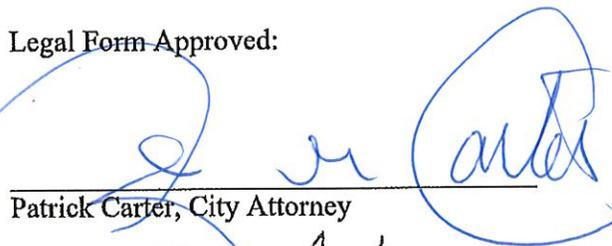
CITY OF SPRING HILL, a Tennessee municipality

By:  Date of Execution: 8-16-2021  
Jim Hagaman, Mayor

Attest:

  
April B. Goad, City Recorder

Legal Form Approved:

  
Patrick Carter, City Attorney

By:   
Vendor Representative

Douglas Lange - Vice President  
(Print Name)

Hawkins, Inc.

2381 Rosegate, Roseville MN 55113  
(Business Name & Address)



# SAFETY DATA SHEET

Issue Date: 22-Apr-2016

Revision Date: 22-Jul-2021

Version 1

## 1. Identification

### Product identifier

Product Name: Hydrogen Peroxide 34% Std

### Other means of identification

Product Code: 46394  
Synonyms: H<sub>2</sub>O<sub>2</sub>; HOOH  
UN/ID No: UN2014

### Recommended use of the chemical and restrictions on use

Recommended Use: Industrial, Manufacturing or Laboratory use.  
Restrictions on Use: None known

### Details of the supplier of the safety data sheet

Manufacturer: Hawkins, Inc.  
2381 Rosegate  
Roseville, MN 55113  
(612) 331-6910

### Emergency telephone number

Emergency Telephone: CHEMTREC: 1-800-424-9300 (US) / +1 703-741-5970 (International)

## 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 1
Oxidizing liquids	Category 2

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

Signal word: Danger

### Hazard statements:

Harmful if swallowed or if inhaled  
Causes serious eye damage  
May intensify fire; oxidizer



**Precautionary Statements - Prevention:**

Wash face, 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  
 Keep away from heat  
 Keep/Store away from clothing/ combustible materials  
 Take any precaution to avoid mixing with combustibles  
 Wear protective gloves/eye protection/face protection

**Precautionary Statements - Response:**

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 doctor  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 Call a POISON CENTER or doctor if you feel unwell  
 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell  
 Rinse mouth  
 In case of fire: Use water. Do not use dry chemicals or foams. CO<sub>2</sub> or Halon may provide limited control

**Precautionary Statements - Disposal:**

Dispose of contents/container to an approved waste disposal plant

**Unknown Acute toxicity:**

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Other Information**

Not applicable

**3. Composition/information on ingredients**

Chemical name	CAS No	Weight-%
Hydrogen peroxide	7722-84-1	33.5-34.5
Water	7732-18-5	Balance

Any concentration shown as a range is due to batch variation or the exact percentage has been withheld as a trade secret.

**4. First-aid measures****Description of first aid measures**

<b>General advice</b>	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
<b>Inhalation</b>	Remove to fresh air. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical advice/attention. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Skin contact</b>	IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
<b>Self-protection of the first aider</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective

equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Redness. Burning. May cause blindness. Symptoms of overexposure include coughing, giddiness and sore throat.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Exposure to material may cause delayed lung injury resulting in pulmonary edema and pneumonitis. Exposed individuals should be monitored for 72 hours after exposure for the onset of delayed respiratory symptoms. Oxygen rapid release may cause stomach swelling and hemorrhaging, which may produce major, or even fatal, injury to organs if a large amount has been ingested.

## 5. Fire-fighting measures

<b>Suitable Extinguishing Media</b>	Use water. Do not use dry chemicals or foams. CO <sub>2</sub> or Halon may provide limited control. Flood fire area with water from a distance. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out.
<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	Dry chemical. Foam. CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Specific hazards arising from the chemical</b>	These substances will accelerate burning when involved in a fire. Some may decompose explosively when heated or involved in a fire. May ignite combustibles (wood, paper, oil, clothing, etc.). Runoff may create fire or explosion hazard. Decomposes upon heating to release oxygen. Strong oxidizer, attacks textiles and paper. Reacts violently with combustible and reducing materials. Contact with combustible material may cause spontaneous combustion. Closed, unvented containers of this material may explode when subjected to heat from surrounding fire. Solutions above 65% are especially hazardous as they do not contain enough water to remove the heat of decomposition by evaporation. Residual hydrogen peroxide that is allowed to dry (upon evaporation hydrogen peroxide can concentrate) on organic materials such as paper, fabrics, cotton, leather, wood or other combustibles can cause the material to ignite and result in fire.
<b>Explosion Data</b>	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	Yes.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. Do not move cargo or vehicle if cargo has been exposed to heat. Oxidizer. May ignite combustibles (wood, paper, oil, clothing, etc.). Move containers from fire area if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See section 8 for more information. Stop leak if you can do it without risk. Use personal protective equipment as required.

**Other information** Keep combustibles (wood, paper, oil, etc) away from spilled material. Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

**Methods and material for containment and cleaning up**

**Methods for containment**

Dike far ahead of spill; use dry sand to contain the flow of material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Stop leak if you can do it without risk.

**Methods for cleaning up**

Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Flush area with flooding quantities of water. Prevent product from entering drains. Dike far ahead of liquid spill for later disposal. Use clean non-sparking tools to collect absorbed material. Flush area with flooding quantities of water. Hydrogen peroxide may be decomposed by adding sodium metabisulfite or sodium sulfite after diluting to about 5%. Combustible materials exposed to hydrogen peroxide should be rinsed immediately with large amounts of water to ensure that all the hydrogen peroxide is removed. Residual hydrogen peroxide that is allowed to dry (upon evaporation hydrogen peroxide can concentrate) on organic materials such as paper, fabrics, cotton, leather, wood or other combustibles can cause the material to ignite and result in fire.

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Use personal protection equipment. Avoid contact with skin, eyes or clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Prevent contamination. Utensils used for handling hydrogen peroxide should only be made of glass, stainless steel, aluminum or plastic. Pipes and equipment should be passivated before first use. Do not return unused material to its original container.

**Conditions for safe storage, including any incompatibilities****Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Do not store near combustible materials. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children. Store locked up. Protect from light. Containers must be vented. Do not store on wooden pallets.

**Incompatible Materials**

Organic material. Combustible material. Hydrocarbons. Strong acids. Strong bases. Strong oxidizing agents. Reducing agent. Acids. Bases. Metals (iron, copper, brass, bronze, chromium, zinc, lead, silver, manganese, and their alloys). Metal ions. Terpenes. Metal oxides. Alcohols.

**8. Exposure controls/personal protection****Control parameters****Exposure Limits**

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen peroxide 7722-84-1	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m <sup>3</sup> (vacated) TWA: 1 ppm (vacated) TWA: 1.4 mg/m <sup>3</sup>	IDLH: 75 ppm TWA: 1 ppm TWA: 1.4 mg/m <sup>3</sup>

**Exposure Guidelines**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Appropriate engineering controls****Engineering controls**

Showers

Eyewash stations  
Ventilation systems.

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

<b>Eye/face protection</b>	Tight sealing safety goggles.
<b>Hand protection</b>	Wear suitable gloves. Impervious gloves.
<b>Skin and body protection</b>	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Wear fire/flame resistant/retardant clothing.
<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>General hygiene considerations</b>	Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

### **9. Physical and chemical properties**

#### Information on basic physical and chemical properties

<b>Physical State:</b>	Liquid
<b>Appearance:</b>	Clear
<b>Color:</b>	Colorless
<b>Odor:</b>	Slightly pungent
<b>Odor Threshold:</b>	No information available

<b>pH:</b>	
<b>pH Range:</b>	<=4.0, Neat
<b>Salt Out Point:</b>	No information available
<b>Melting Point/Freezing Point:</b>	-32 °C / -26 °F
<b>Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	No information available
<b>Evaporation Rate (BuAc=1):</b>	No information available
<b>Flammability (solid, gas):</b>	No information available
<b>Flammability Limits in Air:</b>	No information available
<b>Vapor Pressure (mm Hg):</b>	No information available
<b>Vapor density (Air =1):</b>	No information available
<b>Specific Gravity (H<sub>2</sub>O=1):</b>	1.130
<b>Water Solubility:</b>	No information available
<b>Solubility(ies):</b>	No information available
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>Autoignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Kinematic Viscosity:</b>	No information available
<b>Dynamic Viscosity:</b>	No information available

#### Other information

<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	Oxidizer
<b>Molecular Weight:</b>	34.01

### **10. Stability and reactivity**

<b>Reactivity</b>	Oxidizer.
<b>Chemical stability</b>	May cause fire or explosion; strong oxidizer. Decomposes on exposure to light. Decomposes on heating. Contamination with metals can accelerate decomposition.

<b>Possibility of hazardous reactions</b>	Contact with combustible material may cause spontaneous combustion. Material decomposes with the potential to produce a rupture of unvented closed containers. Contamination could cause decomposition and generation of oxygen which may result in high pressure and possible container rupture. Contact with metals, metallic ions, alkalis, reducing agents and organic matter (such as alcohols or terpenes) may produce self-accelerated thermal decomposition.
<b>Conditions to avoid</b>	Heat, flames and sparks. Incompatible materials. Excessive heat. Exposure to light. Contamination.
<b>Incompatible Materials</b>	Organic material. Combustible material. Hydrocarbons. Strong acids. Strong bases. Strong oxidizing agents. Reducing agent. Acids. Bases. Metals (iron, copper, brass, bronze, chromium, zinc, lead, silver, manganese, and their alloys). Metal ions. Terpenes. Metal oxides. Alcohols.
<b>Hazardous decomposition products</b>	Oxygen.

## 11. Toxicological information

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	Specific test data for the substance or mixture is not available.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause irreversible damage to eyes.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Symptoms</b>	Redness. Burning. May cause blindness. Symptoms of overexposure include coughing, giddiness and sore throat.
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### Numerical measures of toxicity

#### Acute Toxicity:

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	1,449.30 mg/kg
ATEmix (dermal)	26,666.70 mg/kg
ATEmix (Inhalation-dust/mist)	4.35 mg/l

#### Component Information

Chemical name	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	LC <sub>50</sub> (Lethal Concentration)
Hydrogen peroxide 7722-84-1	= 1518 mg/kg ( Rat )	= 9200 mg/kg ( Rabbit )	= 2000 mg/m <sup>3</sup> ( Rat ) 4 h
Water 7732-18-5	> 90 mL/kg ( Rat )	-	-

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.

**Carcinogenicity**

See section 2 for classified hazards based on component information.

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

Chemical name	ACGIH	IARC	NTP	OSHA
Hydrogen peroxide 7722-84-1	A3	Group 3	-	-

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 3 - Not Classifiable as to Carcinogenicity in Humans

<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.
<b>Other Adverse Effects:</b>	No information available.

**12. Ecological information****Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Hydrogen peroxide 7722-84-1	-	16.4 mg/L (LC50 96 h - Pimephales promelas) 18 - 56 mg/L (LC50 96 h static - Lepomis macrochirus) 10.0 - 32.0 mg/L (LC50 96 h static - Oncorhynchus mykiss)	-	18 - 32 mg/L (EC50 48 h Static - Daphnia magna)

<b>Persistence and Degradability:</b>	No information available.
<b>Bioaccumulation:</b>	There is no data for this product.
<b>Mobility:</b>	No information available.
<b>Other Adverse Effects:</b>	No information available.

**13. Disposal considerations****Waste treatment methods****Waste from residues/unused products**

Should not be released into the environment. Dispose of in accordance with local, state, and national regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging**

Do not reuse empty containers.

**14. Transport information****DOT**

UN/ID No	UN2014
Proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS
Hazard Class	5.1
Subsidiary Class	8
Packing Group	II
Description	UN2014, HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS, 5.1 (8), PG II



## 15. Regulatory information

### International Inventories

Chemical name	TSCA	AICS	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS
Hydrogen peroxide 7722-84-1	Present ACTIVE	Present	Present	-	Present	-	Present	Present	Present	Present
Water 7732-18-5	Present ACTIVE	Present	Present	-	Present	-	Present	Present	Present	Present

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**AICS** - Australian Inventory of Chemical Substances

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 and later calendar years will need to be consistent with updated hazard classifications.

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	SARA Extremely Hazardous Substances TPQ
Hydrogen peroxide 7722-84-1	-	1000 lb	1000 lb TPQ

#### Clean Water Act (CWA)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### OSHA - Process Safety Management - Highly Hazardous Chemicals

This product contains one or more substances regulated under Process Safety Management (29 CFR 1910.119).

Chemical name	OSHA - Process Safety Management - Highly Hazardous Chemicals
Hydrogen peroxide 7722-84-1	7500 lb TQ >=52% by weight

**Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS)**

This product contains one or more substances regulated under the Chemical Facility Anti-Terrorism Standards (6 CFR 27).

Chemical name	Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS)
Hydrogen peroxide 7722-84-1	Theft - Explosives/Improvised Explosive Device Precursors concentration >=35%

**16. Other information**

**NSF/ANSI 60 Certification**



Certified to  
NSF/ANSI 60

Maximum Use (mg/L unless otherwise indicated): 3

Prepared By: HSE Department  
 Issue Date: 22-Apr-2016  
 Revision Date: 22-Jul-2021  
 Revision Note: Format change. Reviewed and Re-issued.

**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



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## PRODUCT DATA SHEET

### Hydrogen Peroxide 34% Std Standard Grade

PDS - 1665; REVISION 05  
EFFECTIVE DATE: 16 JUL 21

#### General Characteristics:

**Appearance:** Clear, colorless solution.  
**Odor:** Slightly pungent.  
**Chemical Formula:** H<sub>2</sub>O<sub>2</sub>  
**Molecular Weight:** 34.01  
**CAS#:** 7722-84-1  
**Shelf Life:** 730 days

#### Standard Specifications:

COMPONENT	SPECIFICATION
Hydrogen Peroxide (as H <sub>2</sub> O <sub>2</sub> ), wt.%	33.5 - 34.5
pH, Neat	≤ 4.0
Color, APHA	≤ 20
Specific Gravity	1.125 - 1.135
Appearance	Clear Solution

#### Additional Information:

**Halal Status:** Product is certified Halal.

**Kosher Status:** Product is certified Kosher-Pareve.

**NSF Certification:** Certified to NSF ANSI/Std. 60 with a maximum use level of 3.0 mg/L.

**Primary Packaging Materials:** Available in drums. All packaging materials are FDA compliant and composed of high density polyethylene (HDPE).

Notice for Product Numbers: 46392, 46394, 46395, 46396, 46397, 50316, 46393 (Internal Use) ("Product(s)")

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