# SAFETY DATA SHEET

**ACP-257 – Hydrogen Peroxide Disinfectant** **Date: 9/10/2024**

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Name** **Hydrogen Peroxide Disinfectant**

**Product Identification**

**Product Class** Hydrogen Peroxide Solution
**EPA Registration Number** 6836-385-5747
**Product Number** ACP 257

**Recommended Use of the Chemical and Restrictions on Use**

**Recommended Use** **Disinfectant, Cleaner, Deodorizer**

**Details of the Supplier of the Safety Data Sheet**

**Manufactured for Address** Arrow Chemical Products, Inc.
5933 W. KL Ave
Kalamazoo, MI 49009

**Emergency Telephone Number**

**Company Phone Number** 313-237-0277
**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Classification**

| | |
|---|---|
| Skin Corrosion/Irritation | Not classified |
| Serious Eye Damage/Eye Irritation | Not classified |

**OSHA/HCS status**: This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Canadian HPA. 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. Read complete product label.

**Signal Word** **None**

**GHS label elements:** **None**

**Hazard Statements** May cause skin and eye irritation

**Appearance:** Clear Colorless **Physical State:** Liquid **Odor:** Sharp, pungent vinegar-like

**Precautionary Statements - Prevention**
Do not get in eyes, on skin, or on clothing
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe vapors/mist/spray/fumes

**Precautionary Statements - Response**
Immediately call a POISON CENTER or doctor/physician
**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/physician
**IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
**IF SWALLOWED:** Call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting

**Precautionary Statements - Storage**
Store locked up. Store in a cool, dry, well-ventilated area. Do not store near reducing agents. For quality purposes, avoid temperatures above 86°F. Do not store in direct sunlight or near sources of ignition or heat. Do not double stack. Use first in, first out storage system. Containers must be vented. Storage temperature range: 5-30˚C (40-86°F) Expected shelf-life one year.

**Precautionary Statements - Disposal**
Dispose of contents/container in accordance with local, state and federal governmental agencies.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% |
|---|---|---|
| Methane Sulfonic Acid | 75-75-2 | 1-5 |
| Hydrogen Peroxide | 7722-84-1 | 1-5 |
| Phosphoric Acid | 7664-38-2 | 0.1-1 |

## 4. FIRST AID MEASURES

**First Aid Measures**

**General Advice** — Immediate medical attention is required.

**Eye Contact** — Do not rub affected area. Rinse Immediately rinse eyes with plenty of water, also under eyelids, for at least 15 minutes. Remove any contact lenses, and continue flushing eyes with water for at least 15 minutes. Keep eye wide open while rinsing. Seek medical attention immediately.

**Skin Contact** — Wash affected areas with plenty of water and soap if available, for several minutes. Remove and clean contaminated clothing and shoes. Seek medical attention if irritation develops or persists.

**Inhalation** — Remove to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

**Ingestion** — Rinse mouth. Drink plenty of water. DO NOT induce vomiting. Do not give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

**Note to physicians** — Product is corrosive material. Use gastric lavage or emesis in contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Caution: Use of water spray when fighting fie may be inefficient.

**Specific Hazards Arising from the Chemical**
This product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

**Protective equipment and precautions for firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

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

| | |
|---|---|
| **Personal Precautions** | Keep unnecessary personnel away. Approach release from upwind. Wear special protective clothing and using positive pressure self-contained breathing apparatus. |

**Environmental precautions**

| | |
|---|---|
| **Environmental precautions** | Do not allow into any storm sewer drains, lakes, streams, ponds, estuaries, oceans of other surface water bodies. Should not be released into the environment. Dispose of according to all local city, state and federal rules and regulations. |

**Methods and Material for Containment and Cleaning Up**

| | |
|---|---|
| **Methods for Containment** | Do not allow undiluted material to enter storm or sanitary sewer systems. Stop or control leak. Control run off and isolate discharged material for proper disposal. |
| **Methods for Cleaning Up** | Neutralize with chalk, alkali solution, or ammonia. Contain spillage and the collect with non-combustible absorbent material like vermiculite, sand, or diatomaceous earth to soak up the product and place into a container for later disposal. Never return spilled product to original container. Clean surface thoroughly to remove residual contamination. |

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

| | |
|---|---|
| **Advice on Safe Handling** | Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. Observe good industrial hygiene practices. |

**Conditions for Safe Storage, Including any Incompatibilities**

| | |
|---|---|
| **Storage Conditions** | Store locked up. Keep out of the reach of children. Store in a cool, dry, well-ventilated area. For quality purposes, avoid temperatures above 86°F. Higher temperatures will accelerate decomposition resulting in loss of assay. Do not double stack. Containers must be vented. Protect from freezing. Storage temperatures range: 5-30°C. |
| **Incompatible Materials** | Strong bases. Strong reducing agents and metals. Incompatible with strong acids and bases. Incompatible with oxidizing agents. Do not store in direct sunlight, or near sources of ignition or heat. |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Hydrogen Peroxide<br>7722-84-1 | TWA: 1 ppm | TWA: 1 ppm<br>TWA:1.4 mg/m$^3$<br>(vacated) TWA: 1 ppm<br>(vacated) TWA: 1.4 mg/m$^3$ | TWA: 1 ppm<br>IDLH: 75 ppm |
| Phosphoric Acid<br>7664-38-2 | 0.2 mg/m$^3$ (TWA) | TWA: 1 mg/m$^3$<br>(vacated) TWA: 1 mg/m$^3$<br>(vacated) STEL: 3 mg/m$^3$ | TWA: 1 mg/m$^3$<br>STEL: 3 mg/m$^3$<br>IDLH: 1000 mg/m$^3$ |

*NIOSH IDLH = Immediately Dangerous to Life or Health*

**Appropriate Engineering Controls**

**Engineering Controls** 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 below recommended exposure limits. Eye wash facilities and emergency shower must be available when handling this product.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/Face Protection** Wear chemicals splash goggles where there is a potential for eye contact.

**Skin and Body Protection** Rubber or neoprene gloves, footwear and aprons, or full protective clothing

**Respiratory Protection** If engineering controls do not maintain airborne concentration below recommended exposure limits, an approved respirator must be worn.

**General Hygiene** Handle in accordance with good industrial hygiene and safety practices.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on Basic Physical and Chemical Properties**

**Physical State** Liquid
**Appearance** Colorless Liquid
**Color** Clear/Colorless

**Odor** Fresh
**Odor Threshold** N/A

| Property | Values | Remarks • Method |
|---|---|---|
| **pH** | >1.0 | |
| **pH (1% solution @ 25°C)** | 2-3 | |
| **Melting Point/Freezing Point** | Not available | |
| **Boiling Point/Boiling Range** | 212 ° F (100°C) | |
| **Flash Point** | Above 200º F | |
| **Evaporation Rate** | Not determined | |
| **Vapor Pressure** | Not determined | |
| **Vapor Density** | Not determined | |
| **Specific Gravity** | 1.017 | |
| **Water Solubility** | Soluble in water | |
| **Weight per Gallon** | 8.47 lb./gal | |
| **Self-Accelerating Decomposition Temperature (SADT)** | Not Determined | |

## 10. STABILITY AND REACTIVITY

**Chemical Stability**
Stable under normal conditions.

**Reactivity**
Reacts violently with strong alkaline substances. This product may react with reducing agents

**Conditions to Avoid**
Extremes of temperature and direct sunlight. Exposure to air or moisture over prolonged periods. Do not mix with other chemicals. Contact with incompatible materials.

**Incompatible Materials**
Strong bases. Strong oxidizing agents. Reducing agents. Metals. Incompatible with strong acids and bases. Incompatible with oxidizing agents.

**Hazardous Decomposition Products**
Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## 11. TOXICOLOGICAL INFORMATION

**Information on Likely Routes of Exposure**

**Inhalation** May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

**Eye Contact** Contact with eyes may cause serious eye damage.

**Skin Contact** Contact causes severe skin burns.

**Ingestion** Causes digestive tract burns. Harmful if swallowed.

**Component Information**

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Hydrogen Peroxide 7722-84-1 | 1518 mg/kg (Rat) | 9200 mg/kg (Rabbit) | 2000 mg/m$^3$ (Rat) 4h |
| Phosphoric Acid 7664-38-2 | 1530 mg/kg (Rat) | 2740 mg/kg (Rabbit) | >850 mg/m$^3$ (Rat) 1 h |
| Methanesulfonic Acid 75-75-2 | 380 mg/kg (Rat) | >1000 mg/kg (Rabbit) | 330 ppm (Rat) 6 h |

**Information on Physical, Chemical and Toxicological Effects**

**Symptoms** Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure**

**Carcinogenicity** Risk of cancer cannot be excluded with prolonged exposure. The International Agency for Research on Cancer (IARC) has determined that occupational exposure to strong-inorganic-acid mists containing sulfuric acid is carcinogenic to humans (group1). This product is not expected to be present in the form of inorganic mist during normal use,

**Reproductive Toxicity** This product is not expected to cause reproductive or developmental effects.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

| Chemical Name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| Hydrogen Peroxide 7722-84-1 | ErC50: Skeletonema costatum 1.38 mg/l 72 h | LC50: Pimephales promelas 16.4 mg/l 96 h | - | EC50: Daphnia Magna 2.4 mg/l 48 h |
| Methanesulfonic Acid 75-75-2 | - | LC50: Oncorhynchus mykiss 73 mg/l 96 h | | EC50: Daphnia Magna 12 mg/l 48 h |

**Environmental Fate**
No data available for this product.

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

**Disposal of Wastes** PESTICIDE DISPOSAL – Pesticides wastes are acutely hazardous. Improper disposal of excess pesticide is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the hazardous waste representative at the nearest EPA regional office for guidance.

**Containers** Non-refillable container. Do not reuse or refill container. Clean container promptly after emptying. Triple rinse as follows: Fill container 1/4 full with water and recap. Agitate vigorously. Follow Pesticide Disposal instructions for rinsate disposal. Drain for 10 seconds After the flow begins to drip. Repeat procedure two more times. Offer for recycling or reconditioning, if available. If not available, puncture and dispose in a sanitary landfill.

## 14. TRANSPORT INFORMATION

**DOT/IMDG/IATA**
**Not regulated for transportation**

## 15. REGULATORY INFORMATION

**International Inventories**

| | | |
|---|---|---|
| **TSCA** | United States Toxic Substances Control Act Section 8(b) Inventory | Yes |
| **DSL** | Canadian Domestic Substances List | Yes |
| **NDSL** | Non-Domestic Substances List | No |
| **AICS** | Australian Inventory of Chemical Substances | Yes |
| **EINECS** | European Inventory of Existing Chemical Substances | Yes |
| **ELINCS** | European List of Notified Chemical Substances | Yes |
| **ENCS** | Japan Existing and New Chemical Substances | Yes |
| **IECSC** | China Inventory of Existing Chemical Substances | Yes |
| **KECL** | Korean Existing and Evaluated Chemical Substances Yes | Yes |
| **PICCS** | Philippines Inventory of Chemicals and Chemical Substances | Yes |
| **New Zealand** | New Zealand Inventory | Yes |

**US Federal Regulations**

This product is a pesticide 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.

**CERCLA Reportable Quantity**
The following components are listed:

| Chemical Name | CAS Number | Reportable Quantity |
|---|---|---|
| Hydrogen Peroxide Solution | 7722-84-1 | 1000 lbs. |

**SARA 313**
The following components are subject to reporting under Section 313 of Title III – TRI Reporting

None

**SARA 304 Extremely Hazardous Substances Reportable Quantity**
The following components are subject to reporting under SARA Title III, Section 304:

| Chemical Name | CAS Number | Reportable Quantity |
|---|---|---|
| Hydrogen Peroxide Solution | 7722-84-1 | 1000 lbs. |

**SARA 302**
The following ingredients are subject to reporting under SARA Title III, Section 302:

| Chemical Name | CAS Number | Threshold Planning Quantity |
|---|---|---|
| Hydrogen Peroxide Solution | 7722-84-1 | 1000 lbs. |

**US State Regulations**

**U.S. State Right-to-Know Regulations**
The following ingredients have been listed:

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Hydrogen Peroxide Solution<br>7722-84-1 | X | X | X |
| Phosphoric Acid<br>7664-38-2 | X | X | X |
| Methanesulfonic Acid<br>75-75-2 | X | - | - |

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazards** | **Flammability** | **Reactivity** | **Special Hazards** |
| | 1 | 0 | 0 | Oxidizer |
| **HMIS** | **Health Hazards** | **Flammability** | **Physical Hazards** | **Personal Protection** |
| | 1 | 0 | 0 | B |

**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 Safety Data Sheet**