

SAFETY DATA SHEET

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

FOR ALL SDS QUESTIONS & REQUESTS, CALL:

1-800-654-6911 (OUTSIDE USA: 1-423-780-2970) 1-800-424-9300 (OUTSIDE USA: 1-703-527-3887) 1-800-511-MSDS (OUTSIDE USA: 1-423-780-2347)

PRODUCT NAME: BAQUACIL Oxidizer

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Arch Chemicals, Inc. 1200 Bluegrass Lakes Parkway Alpharetta, GA 30004 REVISION DATE: 05/27/2015 SUPERCEDES: 09/22/2010

MSDS Number: 000000022731

SYNONYMS: Dihydrogen dioxide (solution)

CHEMICAL FAMILY: Hydrogen peroxide
DESCRIPTION / USE Swimming pool oxidizer
FORMULA: None established

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Oxidizing liquids : Category 1

Skin irritation : Category 2

Serious eye damage : Category 1

Specific target organ toxicity -

single exposure

Category 3 (Respiratory system)

GHS Label element

Hazard pictograms :







Signal word : Danger

Hazard statements : H271 May cause fire or explosion; strong oxidiser.

H315 Causes skin irritation.

H318 Causes serious eye damage. H335 May cause respiratory irritation.

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Precautionary statements

Prevention:

P210 Keep away from heat.

P220 Keep/Store away from clothing/ combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

P283 Wear fire/ flame resistant/ retardant clothing.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P305 + P351 + P338 + P310 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.

P306 + P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

P332 + P313 If skin irritation occurs: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

 CAS OR CHEMICAL NAME
 CAS #
 % RANGE

 Water
 7732-18-5
 72.50

HYDROGEN PEROXIDE (H2O2) 7722-84-1 27.50

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SECTION 4. FIRST AID MEASURES

Inhalation: IF INHALED: Remove individual to fresh air. Seek medical attention if breathing

becomes difficult or if respiratory irritation develops. If not breathing, give artificial

respiration. Call for medical assistance.

Skin Contact: IF ON SKIN: Flush skin with water for 15 minutes. Take off all contaminated

clothing. Seek medical attention if irritation develops.

Eye Contact: IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes.

Seek medical attention immediately.

Ingestion: IF SWALLOWED: Call a physician immediately. DO NOT induce vomiting unless

directed to do so by a physician. Never give anything by mouth to an unconscious

person.

SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA): Product is not known to be flammable, combustible, pyrophoric or

explosive.

Flammable Properties

Flash Point: Not applicable Autoignition Temperature: Not applicable

Fire / Explosion Hazards: Material will not ignite or burn. Oxygen is a decomposition product

of hydrogen peroxide. The generation of oxygen will increase the

burning rate or ignitable materials.

Extinguishing Media: Water spray

Fire Fighting Instructions: In case of fire, use normal fire-fighting equipment and the personal

protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus. Use water to cool

containers.

Hazardous Combustion Products: Oxygen
Upper Flammable / Explosive Limit, No data

% in air:

Lower Flammable / Explosive Limit, No data

% in air:

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency
Situations:

Use the personal protective equipment recommended in Section 8 and a NIOSH approved self-contained breathing apparatus.

Spill Mitigation Procedures

Air Release: Vapors may be suppressed by the use of water fog. Contain all

liquid for treatment and/or disposal as a (potential) hazardous waste. This material is heavier than water. This material is soluble in water. Notify all downstream users of possible contamination. Divert water

flow around spill if possible and safe to do so.

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Water Release:

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Land Release: Contain spilled liquid with sand or earth. DO NOT use combustible

materials such as sawdust. Dilute spilled material with large

amounts of water. Do not place spill materials back in their original containers. Place in containers compatible for this material in a liquid form. After removal, flush contaminated area thoroughly with water.

Additional Spill Information: Hazardous concentrations in air may be found in local spill area and immediately downwind. Remove all sources of ignition. Stop source

of spill as soon as possible and notify appropriate personnel.

SECTION 7. HANDLING AND STORAGE

Handling: Do not take internally. Avoid contact with eyes, skin, and clothing.

Upon contact with skin or eyes, wash off with water. Avoid breathing

mist or vapor.

Storage: Keep product tightly sealed in original containers. Store product in a

cool, dry, well-ventilated area. Store away from combustible or flammable products. Keep product packaging clean and free of all contamination, including, e.g. other pool treatment products, acids, organic materials, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc.

Incompatible Materials for Storage: Violent, catalytic decomposition will occur in contact with certain

metals, such as iron, copper, chromium, brass, bronze, lead, silver, manganese, or their salts. Decomposed by alkalies and even ordinary dust or rust., Bases, Reducing agents, alcohols,

Permanganates

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Local exhaust ventilation or other engineering controls are normally required

when handling or using this product to keep airborne exposures below the

TLV, PEL or other recommended exposure limit.

Protective Equipment for Routine Use of Product

Respiratory Protection: Wear a NIOSH approved respirator if levels above the exposure limits are

possible. NIOSH approved full-face positive pressure supplied-air respirator

Skin Protection: Wear impervious gloves to avoid skin contact. A full impervious suit is

recommended if exposure is possible to a large portion of the body. A safety

shower should be provided in the immediate work area.

Eye Protection: Use chemical goggles and a faceshield. Emergency eyewash should be

provided in the immediate work area.

Protective Clothing Type: Butyl rubber, Natural rubber, Nitrile, VitonTM

Components with workplace control parameters

Components (CAS-No.)	Value	Control	Basis (Update)
		parameters	

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HYDROGEN PEROXIDE (H2O2) (7722-84-1)	TWA	1 ppm	ACGIH (02 2014)
J,			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid
Form liquid
Color: colorless
Odor: None
Molecular Weight: 34.00 g/mol

pH: 2.7
Boiling Point: No data

Density:

No data.

Not applicable

Vapor Pressure: 186.70000000 hPa

Vapor Density: No data
Viscosity: No data
Fat Solubility: No data
Solubility in Water: soluble

Partition coefficient n-

octanol/water:

Evaporation Rate: No data
Oxidizing: Oxidizer
Volatiles, % by vol.: 100.000%

VOC Content This product does not contain any chemicals listed under the U.S.

Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489). This product does not contain any VOC exemptions

listed under the U.S. Clean Air Act Section 450.

HAP Content Not applicable

SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary: May become unstable at elevated temperatures and/or pressure.

Not sensitive to mechanical shock. Not sensitive to static

discharge.

Conditions to Avoid: Contamination, Avoid concentrating the hydrogen peroxide.

Concentrated hydrogen peroxide solutions are reactive, often violently, with a wide range of inorganic and organic chemicals.,

Sparks, open flame, other ignition sources, and elevated

temperatures.

Chemical Incompatibility: strong reducing agents, Contact with combustible materials may

cause a fire., copper & copper alloys, ferrous metals, brass, Bases

Hazardous Decomposition Products: Oxygen is a decomposition product of hydrogen peroxide. The

generation of oxygen will increase the burning rate or ignitable

materials.

Decomposition Temperature: No data

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SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

HYDROGEN LD50 (35% Hydrogen Peroxide) = 1,232 mg/kg Rat

PEROXIDE (H2O2)

Component Animal Toxicology

Dermal LD50 value:

HYDROGEN LD50 (35% Hydrogen Peroxide) > 2,000 mg/kg Rabbit

PEROXIDE (H2O2)

Component Animal Toxicology

Inhalation LC50 value:

HYDROGEN Inhalation LC50 8 h (90% Hydrogen Peroxide) > 2000 ppm Rat

PEROXIDE (H2O2)

Inhalation LC50 4 h (50% Hydrogen Peroxide) > 0.17 mg/l Rat

Product Animal Toxicity

Oral LD50 value: LD50 Believed to be, 3 - 4 g/kg Rat

Dermal LD50 value: LD50 Believed to be > 2,000 mg/kg Rabbit

Inhalation LC50 No data.

value:

Skin Irritation: Moderate Skin Irritant
Eye Irritation: Corrosive to eyes.
Skin Sensitization: Not a Skin Sensitizer

Acute Toxicity: Subchronic / Chronic

Irritating to skin and corrosive to eyes, respiratory tract and gastrointestinal tract.

There are no known or reported effects from chronic exposure.

Toxicity:

Reproductive and This chemical is not known or reported to affect reproductive function or fetal

Developmental Toxicity: development.

HYDROGEN PEROXIDE (H2O2) Not known or reported to cause reproductive or

developmental toxicity.

Mutagenicity: This product has been tested for mutagenicity. Tests revealed both positive

and negative results. Based on the weight of evidence, we judge this

product NOT to be a mutagenic hazard.

HYDROGEN PEROXIDE (H2O2) This product has been tested for mutagenicity. Tests

revealed both positive and negative results. Based on the weight of evidence, we judge this product NOT to be

a mutagenic hazard.

Carcinogenicity: The International Agency for Research on Cancer (IARC) has classified this

product or a component of this product as a Group 3 substance,

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Unclassifiable as to Its Carcinogenicity to Humans.

HYDROGEN PEROXIDE (H2O2)

The International Agency for Research on Cancer (IARC) has classified this product or a component of this product as a Group 3 substance, Unclassifiable as to Its Carcinogenicity to Humans. The FDA determined that this product is not carcinogenic in laboratory animals.

SECTION 12. ECOLOGICAL INFORMATION

Overview: Moderately toxic to fish and other aquatic organisms.

Ecological Toxicity Values for: HYDROGEN PEROXIDE (H2O2)

Pimephales promelas (fathead - 96 h LC50 = 16.4 mg/l

minnow)

Channel Catfish (Ictalurus - 96 h LC50 = 37.4 mg/l

punctatus rafinesque),

Rainbow trout (Salmo gairdneri), - 48 h Lethal > 40 mg/l
Daphnia magna, - 24 h EC50= 7.7 mg/l

Daphnia pulex - 48 h LC50= 7.7 mg/l

SECTION 13. DISPOSAL CONSIDERATIONS

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Waste Disposal Summary: If this product becomes a waste, it meets the criteria of a hazardous

waste as defined under 40 CFR 261 and would have the following

EPA hazardous waste number: D001.

Disposal Methods: As a hazardous liquid waste, it must be disposed of in accordance

with local, state and federal regulations in a permitted hazardous waste treatment, storage and disposal facility by treatment or

incineration.

Potential US EPA Waste Codes: D001

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SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 2014

Description of the goods : Hydrogen peroxide, aqueous solutions

Class : 5.1
Packing group : II
Labels : 5.1 (8)
Emergency Response : 140

Guidebook Number

TDG

UN number : 2014

Description of the goods : HYDROGEN PEROXIDE, AQUEOUS SOLUTION

Class : 5.1
Packing group : II
Labels : 5.1 (8)

IATA

UN number : 2014

Description of the goods : Hydrogen peroxide, aqueous solution

Class : 5.1
Packing group : II
Labels : 5.1 (8)
Packing instruction (cargo : 554

aircraft)

Packing instruction : 550

(passenger aircraft)

Packing instruction : Y540

(passenger aircraft)

IMDG-CODE

UN number : 2014

Description of the goods : HYDROGEN PEROXIDE, AQUEOUS SOLUTION

 Class
 : 5.1

 Packing group
 : II

 Labels
 : 5.1 (8)

 EmS Number 1
 : F-H

 EmS Number 2
 : S-Q

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302

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The following components are subject to reporting levels established by SARA Title III, Section 302:

Hydrogen peroxide

7722-84-1

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

US State Regulations

Massachusetts Right To Know

Hydrogen peroxide 7722-84-1

Pennsylvania Right To Know

Hydrogen peroxide 7722-84-1

New Jersey Right To Know

Hydrogen peroxide 7722-84-1

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TSCA : The components of this product are listed on the TSCA

Inventory of Existing Chemical Substances.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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SECTION 16. OTHER INFORMATION

SECTIONS REVISED: 8

Major References : Available upon request.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT.

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