

HYDROGEN PEROXIDE 34.5% (ALL GRADES)

1. PRODUCT AND COMPANY IDENTIFICATION

Company

Arkema Inc. 900 First Avenue

King of Prussia, Pennsylvania 19406

Oxygenated and Derivatives

Customer Service Telephone Number:

1-800-346-5757

(Monday through Friday, 8:00 AM to 5:00 PM EST)

Emergency Information

Transportation:

CHEMTREC: (800) 424-9300

(24 hrs., 7 days a week)

Medical:

Rocky Mountain Poison Center: (866) 767-5089

(24 hrs., 7 days a week)

Product Information

Product name:

HYDROGEN PEROXIDE 34.5% (ALL GRADES)

Synonyms:

H2O2 34.5% H2O2

Molecular formula: Chemical family: Molecular weight:

peroxides 34.01 g/mol

Product use:

Bleaching agent, Oxidizing agent, Cosmetics, Water treatment

2. HAZARDS IDENTIFICATION

Emergency Overview

Color:

colourless

Physical state:

liquid

Odor:

pungent

*Classification of the substance or mixture:

Oxidizing liquids, Category 2, H272
Oral: Acute toxicity, Category 4, H302
Serious eye damage, Category 1, H318
Specific target organ toxicity - single exposure, Category 3, H335
Chronic aquatic toxicity, Category 3, H412

*For the full text of the H-Statements mentioned in this Section, see Section 16.

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GHS-Labelling

Hazard pictograms:







Signal word:

Danger

Hazard statements:

H272: May intensify fire; oxidizer. H302: Harmful if swallowed.

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

H412: Harmful to aquatic life with long lasting effects.

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 gas/mist/vapours/spray. P264 : Wash skin thoroughly after handling.

P270 : Do not eat, drink or smoke when using this product.

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

P273: Avoid release to the environment.

P280: Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P312 : IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P304 + P340 : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor.

P330 : Rinse mouth.

P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

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.

Supplemental information:

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Potential Health Effects:

If swallowed:

May cause: gastrointestinal symptoms, ulceration, burns, accumulation of fluid in the lungs which may be delayed for several hours.(severity of effects depends on extent of exposure).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Wt/Wt	GHS Classification**
Hydrogen peroxide (H2O2)	7722-84-1	34.5 %	H272, H302, H318, H335, H412
Water	7732-18-5	65.5 %	Not classified

^{**}For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1. Description of necessary first-aid measures:

Inhalation:

If inhaled, remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Skin:

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eyes:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Ingestion:

If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. Rinse mouth.

4.2. Most important symptoms/effects, acute and delayed:

For most important symptoms and effects (acute and delayed), see Section 2 (Hazard Statements and Supplemental Information) and Section 11 (Toxicology Information) of this SDS.

4.3. Indication of immediate medical attention and special treatment needed, if necessary:

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Unless otherwise noted in Notes to Physician, no specific treatment noted; treat symptomatically.

Notes to physician:

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.

5. FIREFIGHTING MEASURES

Extinguishing media (suitable):

water spray, water fog

Protective equipment:

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand / NIOSH approved or equivalent).

Further firefighting advice:

Oxidizing material

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

Decomposition will release oxygen, which will intensify a fire.

Cool closed containers exposed to fire with water spray.

Closed containers of this material may explode when subjected to heat from surrounding fire.

Do not allow run-off from fire fighting to enter drains or water courses.

Fire fighting equipment should be thoroughly decontaminated after use.

Fire and explosion hazards:

Explosive when mixed with combustible material.

Avoid breathing fumes from fire exposed material.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, Emergency procedures, Methods and materials for containment/clean-up:

Prevent further leakage or spillage if you can do so without risk. Evacuate area of all unnecessary personnel. Ventilate the area. Eliminate all ignition sources. Avoid generation of vapors. Avoid contact with cellulose, paper, sawdust or similar substances. Risk of self-ignition or promotion of fires. Combustible materials exposed to hydrogen peroxide should be rinsed immediately with large amounts of water to ensure that all the hydrogen peroxide is removed. Contain and collect spillage with non-combustible absorbent material such as clean sand, earth, diatomaceous earth or non-acidic clay and place into suitable properly labeled containers for prompt disposal. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

Protective equipment:

Appropriate personal protective equipment is set forth in Section 8.

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7. HANDLING AND STORAGE

Handling

General information on handling:

Do not taste or swallow.

Do not get in eyes, on skin, or on clothing.

Avoid breathing vapor or mist.

Keep from contact with clothing and other combustible materials.

Keep away from heat, sparks and flames.

Use only with adequate ventilation.

Wash thoroughly after handling.

Wear fire/ flame resistant/ retardant clothing.

Prevent product contamination.

Keep only in the original container.

Store in tightly closed container.

DO NOT CUT, DRILL, GRIND, OR WELD ON OR NEAR THIS CONTAINER.

Emptied container retains vapor and product residue.

Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

Avoid contamination.

Storage

General information on storage conditions:

Store in tightly closed container. Store in cool, dry, well ventilated area away from sources of ignition such as flame, sparks and static electricity. Store out of direct sunlight in a cool well-ventilated place. Store in original container. Store away from combustibles and incompatible materials. Refer to National Fire Protection Association (NFPA) 430, Code for the Storage of Solid and Liquid Oxidizers.

Storage incompatibility - General:

Store separate from acids, alkalies, reducing agents, and combustibles. Store separate from:

Organic materials

Metallic oxides

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne Exposure Guidelines:

Hydrogen peroxide (7722-84-1)

US. ACGIH Threshold Limit Values

Time weighted average

1 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

PEL:

1 ppm (1.4 mg/m3)

Only those components with exposure limits are printed in this section. Limits with skin contact designation above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required. Limits with a sensitizer designation above mean that exposure to this material may cause altergic reactions.

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Engineering controls:

Investigate engineering techniques to reduce exposures below airborne exposure limits or to otherwise reduce exposures. Provide ventilation if necessary to minimize exposures or to control exposure levels to below airborne exposure limits (if applicable see above). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

Respiratory protection:

Avoid breathing vapor or mist. Where airborne exposure is likely or airborne exposure limits are exceeded (if applicable, see above), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. Consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure or where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Skin protection:

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact.

When handling this material, gloves of the following type(s) should be worn:

Neoprene

Polyvinylchloride

Impervious butyl rubber gloves

Wear a face shield, chemical goggles and chemical resistant clothing such as an approved splash protective suit made of SBR Rubber, PVC, Gore-Tex or a HAZMAT Splash Protective Suit (Level A, B, or C) when splashing may occur (such as connecting/disconnecting, mechanical first break). For foot protection, wear boots made of NBR, PVC, polyurethane, or neoprene. Overboots made of Latex or PVC, as well as firefighter boots or specialized HAZMAT boots are also permitted. DO NOT wear any form of boot or overboots made of nylon or nylon blends. DO NOT use cotton, wool or leather, as these materials react RAPIDLY with higher concentrations of hydrogen peroxide. Rinse immediately if skin is contaminated. Remove contaminated clothing and shoes immediately. Thoroughly rinse the outside of gloves and protective clothing with water prior to removal. Completely submerge hydrogen peroxide contaminated clothing or other materials in water prior to drying. Residual hydrogen peroxide, if allowed to dry on materials such as paper, fabrics, cotton, leather, wood or other combustibles can cause the material to ignite and result in a fire. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash thoroughly after handling.

Eye protection:

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

9. PHYSICAL AND CHEMICAL PROPERTIES				
Color:	colourless			
Physical state:	liquid			
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Odor:

pungent

Odor threshold:

No data available

Flash point

None.

Auto-ignition temperature:

Not applicable

Lower flammable limit

(LFL):

Not applicable

Upper flammable limit

(ÚFL):

Not applicable

pH:

No data available

Density:

1.13 g/cm3 (68 °F (20 °C))

Vapor pressure:

24 mmHg (68 °F (20 °C))

Relative vapor density:

1.0

Vapor density:

not determined

Boiling point/boiling

range:

226 °F (108 °C)

Melting point/range:

No data available.

Freezing point:

-27 °F (-33 °C)

Evaporation rate:

No data available

Solubility in water:

completely soluble

Viscosity, dynamic:

No data available

% Volatiles:

100 %

Molecular weight:

34.01 g/mol

Oil/water partition

coefficient:

No data available

Thermal decomposition

No data available

Flammability:

See GHS Classification in Section 2

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10. STABILITY AND REACTIVITY

Stability:

This material is chemically stable under normal and anticipated storage, handling and processing conditions.

Hazardous reactions:

None known.

Materials to avoid:

Metals

Organic materials

Reducing agents

Metallic oxides

Dusts

Combustible materials (e.g., wood, sawdust)

Alkaline materials

Conditions / hazards to avoid:

Material decomposes with the potential to produce a rupture of unvented closed containers.

Hazardous decomposition products:

This material decomposes if contaminated, causing fire and possible explosions. Oxygen can be liberated at temperatures above ambient.

11. TOXICOLOGICAL INFORMATION

Data on this material and/or a similar material are summarized below.

Data for HYDROGEN PEROXIDE 34.5% (ALL GRADES)

Acute toxicity

Oral:

Harmful if swallowed. (Rat) LD50 = 1,200 mg/kg. (35 %) (as aqueous solution)

Dermal:

May be harmful in contact with skin. (Rabbit) LD50 > 2,000 mg/kg. (35 %) (as aqueous solution)

May be harmful in contact with skin. (Rat) LD50 > 2,000 mg/kg. (35 %) as aqueous solution

Inhalation:

No deaths occurred. (Rat) 4 h LC0 > 0.17 mg/l. (50 %) (saturated vapor)

Skin Irritation

Causes mild skin irritation. (Rabbit) Irritation Index: 1.6 / 8. (35 %) (aqueous solution)

Eye Irritation:

Causes serious eye damage. (Rabbit) (35 %) (aqueous solution)

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Data for Hydrogen peroxide (7722-84-1)

Acute toxicity

Oral:

Toxic if swallowed. (Rat) LD50 = 75 mg/kg. (70 %) (as aqueous solution)

Dermal:

Practically nontoxic. (Rabbit) LD50 = 9,200 mg/kg. (70 %) (as aqueous solution)

Inhalation:

Harmful if inhaled. (Rat) 4 h LC50 = 2 mg/l. (100 %) (aerosol)

Specific target organ toxicity - single exposure:

May cause respiratory irritation.

Skin Irritation:

Causes severe skin burns. (Rabbit) (3 min) (70 %) (aqueous solution)

Eye Irritation:

Causes serious eye damage. (Rabbit) (70 %) (aqueous solution)

Repeated dose toxicity

Repeated drinking water administration to rat and mouse / affected organ(s): Gastro-intestinal tract / signs: irritation

Repeated inhalation administration to rat / affected organ(s): nose / signs: irritation

Carcinogenicity

Chronic drinking water administration to rat and mouse / affected organ(s): Gastro-intestinal tract / signs: Increased incidence of tumors was reported.

Classified by the International Agency for Research on Cancer as: Group 3: Unclassifiable as to carcinogenicity in humans.

Genotoxicity

Assessment in Vitro:

Genetic changes were observed in laboratory tests using: bacteria, animal cells

Genotoxicity

Assessment in Vivo:

Genetic changes were observed in a laboratory test using: mice, rats

Human experience

Inhalation:

Throat: irritation. (based on reports of occupational exposure to workers)

Human experience

Skin contact:

Skin: bleaching of hair. (based on reports of occupational exposure to workers)

Human experience

Eye contact:

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Eye: irritating, (based on reports of occupational exposure to workers)

Human experience

Ingestion:

Gastrointestinal tract: bloating, ulceration, burns. (accidental exposure to concentrated solutions)

Lung: accumulation of fluid in the lungs, death. (severity of effects depends on extent of exposure)

12. ECOLOGICAL INFORMATION

Chemical Fate and Pathway

Data on this material and/or a similar material are summarized below.

Data for Hydrogen peroxide (7722-84-1)

Biodegradation:

Readily biodegradable. (0.02 d) biodegradation 99 %

Octanol Water Partition Coefficient:

log Pow = -1.57 (calculated)

Ecotoxicology

Data on this material and/or a similar material are summarized below.

Data for Hydrogen peroxide (7722-84-1)

Aquatic toxicity data:

Harmful. Pimephales promelas (fathead minnow) 96 h LC50 = 16.4 mg/l

Aquatic invertebrates:

Toxic. Daphnia pulex (Water flea) 48 h EC50 = 2.4 mg/l

Algae:

Toxic. Skeletonema costatum (marine diatom) 72 h ErC50 = 1.38 mg/l

Microorganisms:

Activated sludge 0.5 h EC50 = 466 mg/l Activated sludge 3 h EC50 > 1,000 mg/l

Chronic toxicity to aquatic invertebrates:

Daphnia magna (Water flea) 21 d'NOEC (reproduction) = 0.63 mg/l

13. DISPOSAL CONSIDERATIONS

Waste disposal:

Dilution with water is the preferred method of disposal. Dispose of in accordance with federal, state and local regulations. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

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Take appropriate measures to prevent release to the environment.

14. TRANSPORT INFORMATION

US Department of Transportation (DOT)

UN Number 2014

Proper shipping name Hydrogen peroxide, aqueous solutions

Class 5.1

(8)Subsidiary hazard class Packaging group 11 Marine pollutant no

International Maritime Dangerous Goods Code (IMDG)

UN Number

HYDROGEN PEROXIDE, AQUEOUS SOLUTION Proper shipping name

Class 5.1

Subsidiary hazard class (8)II Packaging group Marine pollutant no

15. REGULATORY INFORMATION

Chemical Inventory Status

EINECS Conforms to EU. EINECS

US, Toxic Substances Control Act **TSCA** The components of this product are all on

the TSCA Inventory.

Australia. Industrial Chemical (Notification and AICS Conforms to

Assessment) Act

Korea, Existing Chemicals Inventory (KECI)

Canada, Canadian Environmental Protection Act DSL All components of this product are on the Canadian DSL

KECI (KR)

Conforms to

(CEPA). Domestic Substances List (DSL)

Japan. Kashin-Hou Law List ENCS (JP) Does not conform

Philippines. The Toxic Substances and Hazardous Does not conform PICCS (PH) and Nuclear Waste Control Act

China. Inventory of Existing Chemical Substances IECSC (CN) Does not conform

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United States - Federal Regulations

SARA Title III - Section 302 Extremely Hazardous Chemicals:

Chemical name

CAS-No.

SARA

<u>SARA</u>

Reportable Quantities Threshold Planning

Planning Quantity

Hydrogen peroxide

7722-84-1

1000 lbs

1000 lbs

SARA Title III - Section 311/312 Hazard Categories:

Acute Health Hazard, Fire Hazard, Reactivity Hazard

SARA Title III - Section 313 Toxic Chemicals:

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.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantity (RQ):

The components in this product are either not CERCLA regulated, regulated but present in negligible concentrations, or regulated with no assigned reportable quantity.

United States - State Regulations

New Jersey Right to Know

Chemical name

CAS-No.

Hydrogen peroxide

7722-84-

New Jersey Right to Know - Special Health Hazard Substance(s)

Chemical name

CAS-No.

Hydrogen peroxide

7722-84-1

Pennsylvania Right to Know

Chemical name

CAS-No.

Hydrogen peroxide

7722-84-1

Water

7732-18-5

Pennsylvania Right to Know - Environmentally Hazardous Substance(s)

Chemical name

CAS-No.

Hydrogen peroxide

7722-84-1

California Prop. 65

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

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16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

May intensify fire; oxidizer.

H302 Harmful if swallowed.

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

H412 Harmful to aquatic life with long lasting effects.

Miscellaneous:

Other information:

This SDS covers the following Grades of H2O2: ALBONE®,

PEROXAL®, VALSTERANE®.

Latest Revision(s):

Reference number:

000000059897

Date of Revision:

05/06/2016

Date Printed:

05/10/2016

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Arkema has implemented a Medical Policy regarding the use of Arkema products in Medical Devices applications that are in contact with the body or circulating bodily fluids (http://www.arkema.com/en/social-responsibility/responsible-product-management/medicaldevice-policy/index.html) Arkema has designated Medical grades to be used for such Medical Device applications. Products that have not been designated as Medical grades are not authorized by Arkema for use in Medical Device applications that are in contact with the body or circulating bodily fluids. In addition, Arkema strictly prohibits the use of any Arkema products in Medical Device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. The Arkema trademarks and the Arkema name shall not be used in conjunction with customers' medical devices, including without limitation, permanent or temporary implantable devices , and customers shall not represent to anyone else, that Arkema allows, endorses or permits the use of Arkema products in such medical devices.

It is the sole responsibility of the manufacturer of the medical device to determine the suitability (including biocompatibility) of all raw materials, products and components, including any medical grade Arkema products, in order to ensure that the final end-use product is safe for its end use; performs or functions as intended; and complies with all applicable legal and regulatory requirements (FDA or other national drug agencies) It is the sole responsibility of the manufacturer of the medical device to conduct all necessary tests and inspections and to evaluate the medical device under actual end-use requirements and to adequately advise and warn purchasers, users, and/or learned intermediaries (such as physicians) of pertinent risks and fulfill any postmarket surveillance obligations. Any decision regarding the appropriateness of a particular Arkema material in a particular medical device should be based on the judgment of the manufacturer, seller, the competent authority, and the treating physician.

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