



1. IDENTIFICATION

Product Name HYDROGEN PEROXIDE 33%

Product Code

Recommended use and restrictions

Intended use Laundry additive

COMPANY IDENTIFICATION

A-1 Products

1235 E. Kennestone Cir.

Marietta, GA 30066

Phone (770) 428-5545

Toll-Free (800) 969-7659

2020 Avenue F. Ensley

Birmingham, AL 35218

(205) 787-1403

EMERGENCY TELEPHONE NUMBER

INFOTRAC (800) 535-5053

2. HAZARDS IDENTIFICATION

Hazard Classification

Serious Eye Damage Category 1

Skin Corrosion/Irritation Category 2

Acute Toxicity (Oral) Category 4

STOST - Single Exposure Category 3

Oxidizing Liquids Category 2

Hazard Pictograms



Signal Word

DANGER!

Hazard Statements

H272: May intensify fire: oxidizer

H302: Harmful if swallowed

H315: Causes skin irritation

H318: Causes serious eye damage

H335: May cause respiratory irritation

Precautionary Statements

P261: Avoid breathing dust/fumes/gas/mist/vapors/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.

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

P301+312+330: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.



P302+352: IF ON SKIN: Wash with plenty of water.

P304+340+312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

P305+351+338+310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Immediately call a POISON CENTER/doctor.

P332+313: If skin irritation occurs: Get medical advice/attention.

P362+364: Take off contaminated clothing and wash it before reuse.

P403+233: Store in a well ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents/container to an approved waste disposal facility in accordance with local/regional/national/international regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Nature Hydrogen peroxide

Hazardous Ingredients and Impurities

Chemical Name	CAS#	Percentage
Hydrogen Peroxide	7722-84-1	33%

4. FIRST AID MEASURES

Description of first-aid measures

General Advice

- First Aid responders should pay attention to self-protection and use the recommended protective clothing. If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Show this material safety data sheet to the doctor in attendance.

In case of inhalation

- Move affected individual to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration; if by mouth-to-mouth use rescuer protection (pocket mask, etc.). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician if necessary.

In case of skin contact

- In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

In case of eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Seek medical advice

In case of ingestion

- If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Most important symptoms and effects, both acute and delayed

- Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.
- Skin contact may aggravate an existing skin disease.



Notes to physician

- All treatments should be based on observed signs and symptoms of distress in the patient.
- Treat symptomatically.
- There is no antidote.
- Consult with an ophthalmologist immediately in all cases.

5. FIREFIGHTING MEASURES

Flash Point > 201°F (Pensky Marten Closed Cup)

Autoignition Temperature No data available

Flammability/Explosive limit No data available

Extinguishing media

Suitable extinguishing media

- Water fog or spray
- Dry chemical fire extinguishers
- Foam
- Carbon dioxide CO₂

Unsuitable extinguishing media

- None known

Special hazards arising from the substance or mixture

Specific hazards during fire fighting

- Hazardous decomposition products may form while on fire

Hazardous combustion products

- Oxygen

Advice for fire fighters

Special protective for fire fighters

- Wear a positive-pressure self-contained breathing apparatus (SCBA) and full protective clothing

Firefighting methods

- Do not use a direct water stream as it may spread fire.
- Isolate fire and deny unnecessary entry. Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Isolate area and deny unnecessary entry
- Wear suitable protective equipment.
- Refer to Section 8 "Exposure controls/ personal protection"
- Ventilate area of leak or spill

Environmental precautions

- Prevent spill material from entering soil, ditches, waterway or groundwater
- Spills may be reportable to the National Response Center and/or to state and local agencies



Methods and materials for containment and cleaning up

- Absorb material with sand, dirt, diatomaceous earth, vermiculite, etc...
- Shovel or sweep up material
- Place in a container for disposal according to local, state, or federal regulations

7. HANDLING AND STORAGE

Precautions for safe handling

- Wear personal protective equipment and observe good industrial hygiene practices.

Conditions for safe storage, including incompatibilities

- Store in the original container.
- Keep the container tightly closed when not in use.
- Keep away from open flames, hot surfaces, and ignition sources
- Keep away from any incompatible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Due to variations in safety procedures, work environments, and handling practices, these recommendations should be viewed as general guidance. Most equipment manufactures can assist with the use and maintenance of worker protection equipment.

Control parameters

Component	Regulation	Type of Listing	Value
Hydrogen Peroxide	ACGIH	TWA	1 ppm
	OSHA	PEL	1 ppm
	NIOSH	TWA	1 ppm

Exposure controls

Engineering measures

- Use engineering controls to keep airborne levels below exposure limits to minimize employee exposures.
- Effective exhaust ventilation system
- Eye wash facilities and emergency shower should be available when handling this product

Individual protection measures

- Eye/face protection: Safety glasses with side shields
- Skin/hand protection: Wear suitable protective gloves, clothing, and footwear.
- Respiratory protection: Wear suitable respiratory equipment in cases of insufficient ventilation. Select NIOSH.MSHA approved equipment in accordance to industrial recommendations or regulatory standards.

Hygiene measures

- Practice good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, smoking, applying cosmetics, or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

<u>Physical state</u>	Liquid
<u>Form</u>	Liquid
<u>Color</u>	Colorless



<u>Odor</u>	Pungent
<u>Odor Threshold</u>	No data available
<u>pH</u>	2
<u>Melting/freezing point</u>	-27°F
<u>Boiling point</u>	212°F
<u>Flash Point</u>	> 201°F (Pensky Marten Closed Cup)
<u>Evaporation Rate</u>	No data available
<u>Flammability (solid)</u>	No data available
<u>Flammability (gas)</u>	No data available
<u>Flammability (liquid)</u>	No data available
<u>Upper/lower flammability or explosive limits</u>	
<u>Lower (%)</u>	No data available
<u>Upper (%)</u>	No data available
<u>Autoignition temperature</u>	No data available
<u>Vapor pressure</u>	18 mm Hg (@30° C)
<u>Vapor density</u>	> 1
<u>Relative Density</u>	1.1 – 1.2 (25°C)
<u>Solubility</u>	Soluble (water)
<u>Partition coefficient</u>	Log Pow: -1.57
<u>Decomposition temperature</u>	No data available
<u>Viscosity</u>	No data available
<u>Volatiles by volume</u>	100%

10. STABILITY AND REACTIVITY

<u>Reactivity</u>	Contact with other material may cause a fire. Potential for exothermic hazard.
<u>Chemical stability</u>	Product is stable under normal conditions.
<u>Possible hazardous reactions</u>	Contact with combustible materials may cause a fire. Contact with flammables may cause a fire or explosion.
<u>Conditions to avoid</u>	Contamination. Contact with incompatible materials. Reducing agents, alkalis, acids, metals, heavy metal salts, organic material, and flammable material
<u>Incompatible Materials</u>	
<u>Hazardous decomposition products</u>	Oxygen

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

<u>Inhalation</u>	May cause irritation to the respiratory tract.
<u>Skin contact</u>	Causes skin irritation.
<u>Eye contact</u>	Causes serious damage to the eyes.
<u>Ingestion</u>	Causes digestive tract burns. Harmful if swallowed.

Acute toxicity

<u>Acute oral toxicity</u>	LD50 (Rat): 431 mg/kg
<u>Acute inhalation toxicity</u>	LC50 (Rat): > 0.17 mg/l, 4 hours
<u>Acute dermal toxicity</u>	LD50 (rabbit): 6,440 mg/kg
<u>Acute toxicity (other)</u>	No data available



<u>Skin corrosion/irritation</u>	Causes skin corrosion
<u>Serious eye damage/irritation</u>	Risk of serious damage to the eyes.
<u>Respiratory or skin sensitization</u>	Does not cause sensitization
<u>Germ cell mutagenicity</u>	No data available
<u>Carcinogenicity</u>	Not classified as a carcinogen by IARC, ACGIH, NTP, or OSHA

Toxicity for reproduction and development

Reproductive toxicity	Not expected to cause reproductive effects.
Developmental toxicity	Not expected to cause developmental effects.

Specific target organ toxicity

	Route of exposure: Inhalation
	Target organs: Respiratory tract
Single exposure	May cause respiratory irritation.
Repeated exposure	No data available

<u>Aspiration toxicity</u>	No data available
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12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity to fish	LC50 (Fathead minnow): 16.4 mg/l, 96 hours
Acute toxicity to aquatic invertebrates	EC50 (Daphnia): 2.4 mg/l, 48 hours
Toxicity to aquatic plants	EC50 (Marine diatom): 2.62 mg/l, 72 hours
Toxicity to microorganisms	EC50 (Activated sludge): 466 mg/l, 0.5 hours
Chronic toxicity to fish	No data available
Chronic toxicity to aquatic invertebrates	NOEC (Daphnia): 0.63 mg/l, 21 days
Chronic toxicity to aquatic plants	No data available

Persistence and degradability

Biodegradability	Expected to be readily biodegradable.
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Bioaccumulative potential

Partition coefficient: n-octanol/water	No data available
Bioconcentration factor (BCF)	No data available

Mobility in soil

Log Koc: 0.2
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.







Other adverse effects

13. DISPOSAL CONSIDERATIONS

<u>Disposal instructions</u>	Dispose of contents/container in accordance with local/state/federal regulations.
<u>Hazardous waste code</u>	Regulated as a hazardous waste. D002
<u>Waste from residues/unused products</u>	Dispose of contents/container in accordance to local/state/federal regulations.
<u>Contaminated packaging</u>	Empty containers should be taken to an approved waste handling site for recycling or disposal.



14. TRANSPORTATION INFORMATION

	UN Number	Description	Hazardous Class	Packing Group	Label
DOT	UN2014	Hydrogen Peroxide, Aqueous Solution	5.1(8)	II	 
IATA	UN2014	Hydrogen Peroxide, Aqueous Solution	5.1(8)	II	 
IMDG	UN2014	Hydrogen Peroxide, Aqueous Solution	5.1(8)	II	 

Marine Pollutant (Yes/No) No

Notes Please refer to latest shipping document for the most up to date shipping information including exemptions and special circumstances. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations

15. REGULATORY INFORMATION

Inventory Information

- United States TSCA Inventory
- Canadian Domestic Substances List (DSL)
- Australia Inventory of Chemical Substances (AICS)
- Japan. CSCL - Inventory of Existing and New Chemical Substances

Status

On TSCA Inventory
 All components of this product are on the Canadian DSL
 On the inventory, or in compliance with the inventory
 On the inventory, or in compliance with the inventory



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- Korea. Korean Existing Chemicals Inventory (KECI) On the inventory, or in compliance with the inventory
- China. Inventory of Existing Chemical Substances in China (IECSC) On the inventory, or in compliance with the inventory

US. EPA EPCRA SARA Title III

SARA Sections 311/312

Fire Hazard	Reactivity Hazard	Pressure Hazard	Acute Health	Chronic Health
Yes	Yes	No	Yes	No

SARA Section 313 Toxic Chemicals

Component/Ingredient	CAS #	Concentration
No component listed		

SARA Section 302 Extremely Hazardous Substance

Component/Ingredient	CAS #	Reportable Qty.
No component listed		

SARA Section 304 Emergency Release Notification

Component/Ingredient	CAS #	Reportable Qty.
No component listed		

US. EPA CERCLA Hazardous Substances and Reportable Quantities

Component/Ingredient	CAS #	Reportable Qty.
Hydrogen Peroxide	7722-84-1	1,000 lb

Clean Air Act (CAA)

Component/Ingredient	CAS #
No component listed	

Safe Drinking Water Act (SDWA)

Component/Ingredient	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
No component listed				

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

Component/Ingredient	CAS #
No component listed	

16. OTHER INFORMATION

NFPA (National Fire Protection Association) – Classification

Health	3
Flammability	0
Reactivity	1

HMIS (Hazardous Materials Identification System – Classification

Health	3
Flammability	0
Reactivity	1



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PPE Determined by user; dependent on local conditions

Further Information

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Revision Note	None

Disclaimer

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