Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Hydrogen Peroxide 20% CONTROLLED DOCUMENT No information available Synonyms IF STAMPED IN RED UN/ID No. UN2014 **Revision Date** May-20-2020 Recommended Use Reserved for industrial and professional use Uses advised against Consumer uses: Private households (= general public = consumers). **Company Name** Express Car Wash Systems 4014 E 143rd Street Grandview, MO. 64030 (913) 717 7179 24 Hour Emergency Phone Number CHEMTREC 1-800-424-9300 2. HAZARDS IDENTIFICATION Classification Skin corrosion/irritation Category 1 Sub-category A Serious eye damage/eye irritation Category 1 Oxidizing liquids Category 2

Emergency Overview DANGER Hazard statements Causes severe skin burns and eye damage Physical hazards May intensify fire; oxidizer Precautionary statements · Do not breathe dust/fume/gas/mist/vapors/spray Prevention · Wash face, hands and any exposed skin thoroughly after handling · Wear protective gloves/protective clothing/eye protection/face protection • Keep/Store away from clothing/ .? /combustible materials • Take any precaution to avoid mixing with combustibles - .? · Keep away from heat/sparks/open flames/hot surfaces. - No smoking Immediately call a POISON CENTER or doctor/physician Response Specific treatment (see section 4 on this Safety Data Sheet) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if Eyes 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 Skin with water/shower Wash contaminated clothing before reuse Inhalation 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
Ingestion	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
Fire	In case of fire: Use CO2, dry chemical, or foam for extinction
<u>Storage</u>	Store locked up
Disposal	Dispose of contents/container to an approved waste disposal plant
Other Information Other hazards	Toxic to aquatic life with long lasting effects
Unknown Acute Toxicity	0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	EC No.	Weight-% *
Hydrogen peroxide	7722-84-1	231-765-0	20

	4. FIRST AID MEASURES
General advice	 Call 911 or emergency medical service Remove and isolate contaminated clothing and shoes
Eye contact	 In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes
Skin contact	 Consult a physician if necessary Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes Immediate medical attention is not required If skin irritation persists, call a physician
Inhalation	 Move victim to fresh air If breathing is irregular or stopped, administer artificial respiration Administer oxygen if breathing is difficult
Ingestion	 Rinse mouth Drink plenty of water If symptoms persist, call a physician 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
Note to physician	Keep victim warm and quiet
Self-protection for first aid personnel	 Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves
	5. FIRE-FIGHTING MEASURES
Suitable extinguishing media	 Use water. Do not use dry chemicals or foams. CO 2 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
Unsuitable extinguishing media	No information available

Hydrogen Peroxide 20% Specific hazards arising from the chemical	 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
Protective equipment and precautions for firefighters	 Do not move cargo or vehicle if cargo has been exposed to heat 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
Flammable properties	 May explode from heat or contamination Some will react explosively with hydrocarbons (fuels) Containers may explode when heated
Explosive properties	No information available
	6. ACCIDENTAL RELEASE MEASURES
Personal precautions	 Do not touch damaged containers or spilled material unless wearing appropriate protective clothing Stop leak if you can do it without risk
Environmental precautions	 For small spills, absorb material with clay absorbent or other compatible material. Dispose of the waste material according to local, state and governmental requirements. For large spills, contain the material using barriers of absorbent pigs, clay absorbent or earth dams.
Methods for cleaning up	 With clean shovel place material into clean, dry container and cover loosely; move containers from spill area Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal Dike far ahead of liquid spill for later disposal Following product recovery, flush area with water
Other Information	 Keep combustibles (wood, paper, oil, etc) away from spilled material Do not get water inside containers or in contact with substance
	7. HANDLING AND STORAGE
Advice on safe handling	 Avoid contact with skin, eyes or clothing Use personal protective equipment as required Wash contaminated clothing before reuse Do not breathe dust/fume/gas/mist/vapors/spray Do not eat, drink or smoke when using this product Use with local exhaust ventilation
Storage Conditions	 Keep container tightly closed in a dry and well-ventilated place Keep out of the reach of children Keep containers tightly closed in a cool, well-ventilated place Keep in properly labeled containers
Incompatible materials	No information available
8. EX	POSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen peroxide	TWA: 1 ppm	TWA: 1 ppm	IDLH: 75 ppm
7722-84-1		TWA: 1.4 mg/m ³	TWA: 1 ppm
			TWA: 1.4 mg/m ³

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Exposure Guidelines

Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Incompatible materials

Individual protection measures, such as personal protective equipment

Respiratory protection	 A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.
Eye/Face protection	Tight sealing safety gogglesFace protection shield
Skin and body protection	 Wear suitable protective clothing Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact
General Hygiene Considerations	 When using do not eat, drink or smoke Regular cleaning of equipment, work area and clothing is recommended

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Color Odor Odor threshold	Liquid clear colorless Odorless No information available
<u>Property</u> pH Melting point/Freezing Point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air	Values 2.8-4.2Remarks • Method-14 °C / 6 °F 103 °C / 218 °F No information available > 1 No information available
Upper flammability limit (%) Lower flammability limit (%): Vapor pressure Vapor density Specific Gravity Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties	No information available No information available 28 mm Hg No information available 1.076 Miscible in water No information available No information available May cause fire or explosion; strong oxidizer
Other Information Softening point °C Molecular weight VOC Content (%) Density Bulk density	No information available No information available No information available 9.0906 Pounds per gallon (lb/gal)
	10. STABILITY AND REACTIVITY
Stability	Stable under recommended storage conditions
Conditions to avoid	Elevated temperature

None known based on information supplied

Hazardous Decomposition Products • Thermal decomposition can lead to release of irritating and toxic gases and vapors • Carbon oxides (COx)

 $\label{eq:possibility} \textbf{Possibility of Hazardous Reactions} \quad \textbf{\cdot} \textit{None under normal processing and storage}$

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principle Routes of Exposure	Inhalation, Skin contact, Eye contact
Inhalation	May cause irritation of respiratory tract. Avoid breathing vapors or mists.
Ingestion	May be harmful if swallowed.
Skin contact	May cause skin irritation and/or dermatitis.
Eye contact	Contact with eyes may cause irritation.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrogen peroxide 7722-84-1	= 1518 mg/kg (Rat)	= 9200 mg/kg (Rabbit)	= 2000 mg/m³ (Rat)4 h

Information on toxicological effects

Symptoms

No information available

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

Sensitization	No information	on available.		
Germ cell mutagenicity	No information available.			
Carcinogenicity	The table be	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 Confe	erence of Governmental Ind	lustrial Hygienists)		•
A3 - Animal Carcinogen				
IARC (International Age Not classifiable as a hum	ncy for Research on Cance	r)		
Reproductive toxicity	No informatio	on available		
STOT - single exposure		No information available.		
STOT - repeated exposu	e No information	No information available.		
Chronic toxicity		Avoid repeated exposure.		
Target Organ Effects		Eyes, Respiratory system, Skin.		
Aspiration hazard	No information	No information available.		
Numerical measures of t	oxicity - Product Inform	nation		
Unknown Acute Toxicity	0% of the mi	xture consists of ingredient	(s) of unknown toxicity	
The following values are	calculated based on cha	apter 3.1 of the GHS docເ	ument .	
Oral LD50	7590 mg/kg			
Dermal LD50	46000 mg/kg			
LC50 (Dust/Mist)	10 mg/l			
	12. EC	OLOGICAL INFORM	ATION	

Ecotoxicity

Ecotoxicity 0% of the mixture consists of	Toxic to aquatic life with lo components(s) of unknown ha	ong lasting effects zards to the aquatic environme	nt
Chemical Name	Algae/aquatic plants	Fish	Crustacea
Hydrogen peroxide 7722-84-1	2.5: 72 h Chlorella vulgaris mg/L EC50	10.0 - 32.0: 96 h Oncorhynchus mykiss mg/L LC50 static 18 - 56: 96 h Lepomis macrochirus mg/L LC50 static 16.4: 96 h Pimephales promelas mg/L LC50	

Persistence and degradability Bioaccumulation	No information available No information available
Other adverse effects	No information available
	13. DISPOSAL CONSIDERATIONS

Disposal of wastes

• This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261)

Contaminated packaging US EPA Waste Number

Do not reuse container

• D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Hydrogen peroxide	Toxic
7722-84-1	Corrosive
	Ignitable
	Reactive

14. TRANSPORT INFORMATION

DOT	
Proper shipping name	Hydrogen peroxide, aqueous solutions
Hazard Class	5.1
UN/ID No.	UN2014
Packing Group	
Technical Name Description	WITH 20% HYDROGEN PEROXIDE
Description	UN2014, Hydrogen peroxide, aqueous solutions, 5.1 (8), II
Subsidiary class	8
Special Provisions	12, A60, B53, B80, B81, B85, IB2, IP5, T7, TP2, TP6, TP24, TP37
Emergency Response Guide	140
Number	
Treasure of Occurred a	
<u>Transport Canada</u> UN/ID No.	UN2014
	Hydrogen peroxide, aqueous solution
Proper shipping name Hazard Class	5.1
Subsidiary class	8
Packing Group	
Description	UN2014, Hydrogen peroxide, aqueous solution, 5.1 (8), II
•	
UN/ID No.	UN2014
Proper shipping name	Hydrogen peroxide, aqueous solution
Hazard Class	5.1
Subsidiary hazard class	8
Packing Group	11
ERG Code	5C
IMDG_	
UN/ID No.	UN2014
Proper shipping name	Hydrogen peroxide, aqueous solution
Hazard Class	5.1
Subsidiary hazard class	8
Packing Group	
EmS-No.	F-H, S-Q

15. REGULATORY INFORMATION

US Federal Regulations

SARA 311/312 Hazard Categories Acute health hazard

Audio	nountil nuclara	
Chror	nic Health Hazard	

Hydrogen Peroxide 20%	
Fire hazard	Yes
Sudden release of pressure haza	ard No
Reactive Hazard	No
<u>SARA 313</u>	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

U.S. - TSCA (Toxic Substances Control Act) - Section 5(a)(2) - Chemicals with Significant New Use Rules (SNURs)

<u>CWA (Clean Water Act)</u> 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)

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	CERCLA/SARA RQ	RQ (lbs)(dry)
Hydrogen peroxide 7722-84-1		1000 lb	

<u>Canada</u>

WHMIS Classification

WHMIS Classification

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR D2A - Very toxic materials



US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Water			Х
7732-18-5			
Hydrogen peroxide	X	Х	Х
7722-84-1			

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

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

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

AICS - Australian Inventory of Chemical Substances

16. OTHER INFORMATION				
<u>NFPA</u>	Health hazards 3	Flammability 0	Instability 1	Physical and Chemical Properties OX
HMIS	Health hazards 3	Flammability 0	Physical hazards 1	Personal protection H
Item #	12322			
Safety Data Sheet	-			
Revision Date	May-20-2020			
Issue Date	May-20-2020			
Version	3			
Revision Note	*** Updated value on SDS.			
<u>Disclaimer</u>				

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End of Safety Data Sheet