# MATERIAL SAFETY DATA SHEET



## Hydrogen Peroxide 30% w/w

SECTION 1 . Product and Company I	denfication	
Product Name and Synonym:	Hydrogen Peroxide 30% w/w	
Product Code:	BDH3742	
Material Uses: Manufacturer:	VWR International, LLC 100 Matsonford Road Suite 200 Radnor, PA 19087	Health: 3   Flammability: 0   Reactivity: 1   Hazard Rating:   Least Slight Moderate High Extreme   0 1   2 3
Entry Date :	(800) 256-2586 8/5/2013	NA = Not Applicable NE = Not Established
Print Date:	8/5/2013	
24 Hour Emergency Assistance :	Chemtrec 800-424-9300 Canutec 613-996-6666	
SECTION 2 HAZARD IDENTIFICATIO		
	Heat, shock, friction, or contact with ot explosion. Harmful if swallowed. Avoid adequate ventilation. Avoid contact wit thoroughly after handling. Keep closed	breathing vapor or dust. Use h eyes, skin or clothes. Wash
	Physical state: Liquid	
	Odor: Sharp odor (Slight)	
	OSHA/HCS status: This material is considered Communication Standard (29 CFR 1910.1200).	hazardous by the OSHA Hazard
	Emergency overview: DANGER!	
	OXIDIZER.	
	CONTACT WITH OTHER MATERIAL MAY CAU	JSE FIRE.
	CAUSES RESPIRATORY TRACT, EYE AND SI	KIN BURNS.
	HARMFUL IF INHALED OR SWALLOWED.	
	MAY BE HARMFUL IF ABSORBED THROUGH	THE SKIN
	CONTAINS MATERIAL WHICH CAUSES DAM/ ORGANS: LUNGS, MUCOUS MEMBRANES, F OR CORNEA, NOSE, SINUSES.	
	CORROSIVE MATERIAL.	
	POSSIBLE CANCER HAZARD.	
	CONTAINS MATERIAL WHICH MAY CAUSE C	ANCER, BASED ON ANIMAL DATA.
	Do not ingest. Do not get in eyes or on skin or or in tightly-closed container. Avoid contact with co ventilation. Wash thoroughly after handling.	
	Routes of entry: Dermal contact. Eye contact.	Inhalation. Ingestion.

Potential acute health effects

Eyes: Corrosive to eyes ..

Skin: Harmful in contact with skin. Corrosive to the skin.

Inhalation: Toxic by inhalation. Corrosive to the respiratory system.

Ingestion: Toxic if swallowed. May cause burns to mouth, throat and stomach.

Carcinogenic effects: No known significant effects or critical hazards.

Mutagenic effects: No known significant effects or critical hazards.

Teratogenicity/Reproductive toxicity: No known significant effects or critical hazards.

Medical conditions: Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged exposure to the substance can produce lung damage. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to the substance can produce target organs damage.

See toxicological information (section 11).

#### SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
Hydrogen	Peroxide	CAS# 7722-84-1	30%	W/W	OSHA TWA 1 ppm (1.4 mg/m <sup>3</sup> )
🗌 Water, Dei	onized ASTM Type II	CAS# 7732-18-5	70%	W/W	None Established

### SECTION 4 FIRST AID MEASURES

Heat, shock, friction, or contact with other materials may cause fire or explosion. Harmful if swallowed. Avoid breathing vapor or dust. Use adequate ventilation. Avoid contact with eyes, skin or clothes. Wash thoroughly after handling. Keep closed.

FIRST AID: CALL A PHYSICIAN. SKIN: In case of contact, immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. Seek medical attention.

INGESTION: Get medical attention immediately. Wash out mouth with water. Move exposed person to fresh air. If exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing or wear gloves.

SECTION 5 FIRE FIGHTING MEASURES		
Fire Extinguisher Type:	Use only water!	
Fire / Explosion Hazards:	Strong oxidizer.Will not burn, but thermal decomposition will release oxygen. Contact with combustible material may cause fire.	
Fire Fighting Procedure:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.	
SECTION 6 ACCIDENTAL RELEA	SE MEASURES	

Hydroger	n Peroxide 30% w/w
	Flood area with water and drain to an approved chemical sewer or waste water treatment system. May be destroyed with sodium metabisulfite or sodium sulfite.
	Methods for cleaning up: If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.
SECTION 7 HANDLING AND STOR	
	Do not ingest. Do not get in eyes, on skin or clothing. Store in a cool, dry, well-ventilated place away from incompatible materials. Wash thoroughly after handling. Avoid contact with flammable or combustibles.
SECTION 8 EXPOSURE CONTROL	S/PERSONAL PROTECTION
Respiratory Protection: Ventilation	NIOSH/MSHA-approved respirator if required
	Local Exhaust 🔽
Protective Gloves:	Mechanical
Eye Protection:	Nitrile, PVC or neoprene. Goggles and Face Shield recommended
Other Protective Equipment:	Wear appropriate clothing to prevent skin exposure
	Product name - United States
	Hydrogen Peroxide
	Exposure limits
	ACGIH TLV (United States, 1/ 2007). TWA: 1 ppm 8 hour/hours. NIOSH REL (United States, 12/2001). TWA: 1 ppm 10 hour/hours. OSHA PEL (United States, 11/2006) TWA: 1 ppm 8 hour/hours. OSHA PEL 1989 (United States, 3/1989). TWA: 1 ppm 8 hour/hours. ACGIH TLV (United States, 1/2007). TWA: 1.4 mg/m3 8 hour/hours. NIOSH REL (United States, 12/2001). TWA: 1.4 mg/m3 10 hour/hours. OSHA PEL (United States, 11/2006) TWA: 1.4 mg/m3 8 hour/hours. OSHA PEL 1989 (United States, 3/1989). TWA: 1.4 mg/m3 8 hour/hours.
	Consult local authorities for acceptable exposure limits. Engineering measures: Use only with adequate ventilation. If user operations generate dust, fumes, vapor or mist, use process enclosures,

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	limits.		
SECTION 9 PHYSICAL AND CHEMI	CAL PROPERTIES		
Melting Point:	-33 Deg C	Percent Volatile by Volume:	100%
Boiling Point:	108 Deg C	Evaporation Rate	Information not available
Vapor Pressure:	17.4 @ 25 Deg C	Evaporation Standard	
Vapor Density:	Information not available	Auto Ignition Temp	Not applicable
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	Colorless liquid with slightly pungent odor	Upper Flamm. Limit in Air	Not applicable
Flash Point:	Not Flammable		
Specific Gravity:	1.11		
SECTION 10 STABILITY AND READ	TIVITY INFORMATION		
Stability:	Stable		
Conditions to Avoid:	Decomposes on ex	cposure to light.	
Materials to Avoid: Hazardous Decomposition Products:		oustibles, Cyanides, Acids, educing agents, Iron, caustic	
Hazardous polymerization:	Will Not Occur		
Conditions to Avoid:	None known		
SECTION 11 Toxicolog	ical Information		
	Toxicity data		
	United States		
	Product/ingredient name	e – Hydrogen Peroxide	
	Test Result	Route Species	
	by ACGIH (Hydrogen Pe (Hydrogen Peroxide). C	Oral Rat Oral Rat Oral Rat Dermal Rat Dermal Mouse Oral Man Oral Child Dermal Rabbitt ans: CARCINOGENIC EFFECTS: Class eroxide). Classified 3 (Not classifiable for contains material which may cause dama oper respiratory tract, skin, eye, lens or c	r humans.) by IARC

exposure to airborne contaminants below any recommended or statutory limits.

	Other toxic effects on humans: Very hazardous in case of skin contact (corrosive), of eye contact (corrosive), of inhalation (lung corrosive).
	Specific effects
	Carcinogenic effects: No known significant effects or critical hazards.
	Mutagenic effects: No known significant effects or critical hazards.
	Teratogenicity/Reproductive toxicity: No known significant effects or critical hazards.
	Sensitization
	Ingestion: May cuase burns to mouth, throat and stomach.
	Inhalation: Corrosive to the respiratory system.
	Eyes: Corrosive to eyes.
	Skin: Corrosive to the skin.
SECTION 12 Ecologi	ical Information
	Ecotoxicity data - United States
	Product/ingredient name: Hydrogen Peroxide
	Species Period Result
	Daphnia magna (EC50)48 hour/hours24 mg/lOncorhynchus mykiss (LC50)96 hour/hours22 mg/lLepomis macrochirus (LC50)96 hour/hours26.7 mg/l
	Environmental precautions: No known significant effects or critical hazards.
	Toxicity of the products of biodegradation: The product of degradation are less toxic than the product itself.
SECTION 13 Dispos	al Considerations
	Disposal Method: An acceptable method of disposal is to dilute with a large amount of water and allow the hydrogen peroxide to decompose by discharge into a suitable treatment system in accordance with all regulatory agencies. The appropriate regulatory agencies should be contacted prior to disposal.
SECTION 14 Transpor	t Information
DOT Classification:	UN2014, Hydrogen Peroxide, Aqueous Solutions, 30%, 5.1, (8), PG II
DOT Regulations may char	nge from time to time. Please consult the most recent D.O.T. regulations.
SECTION 15 Regulat	tory Information
	United States
	HCS Classification:
	Oxidizing material Toxic material Corrosive material Target organ effects
	U.S. Federal regulations: TSCA 8(b) inventory: Listed
	SARA 302/304/311/312 extremely hazardous substances: Hydrogen Peroxide
	SARA 302/304 emergency planning and notification: Hydrogen Peroxide
	SARA 302/304/311/312 hazardous chemicals: Hydrogen Peroxide
	SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Hydrogen Peroxide: Fire hazard, reactive, Immediate (acute) health hazard, Delayed (chronic) health
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## hazard.

Clean Water Act (CWA) 307: No products were found

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found

State regulation:

Pennsylvania RTK: Hydrogen Peroxide: (environmental hazard, generic environmental hazard)

Massachusetts RTK: Hydrogen Peroxide

New Jersey: Hydrogen Peroxide 30%

WHMIS (Canada):

Class C: Oxidizing material. Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic). Class E: Corrosive material

CEPA DSL/CEPA NDSL: CEPA DSL: Hydrogen Peroxide: Water

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.





The information herein is believed to be accurate and is offered in good faith for the user's consideration and investigation. No warranty either expressed or implied is made for the completeness or accuracy of the information whether originating from the above mentioned company or not. Users of this material should satisfy themselves by independent investigation of current scientific and medical knowledge that the material can be used safely.