


## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product identifier:** HYDROGEN PEROXIDE 25% - 50%  
**Synonyms:** Hydroperoxide, Hydrogen dioxide, Hydrogen peroxide, aqueous solution, Peroxide  
**Intended use:** Bleaching agent, Water treatment, Pulp and Paper, Electronics, Metal Industry, Chemical Manufacturing  
**Uses Advised Against:** None known  
**Company Identification:** DPC Industries, Inc.  
DPC Enterprises, LP  
DXI Industries, Inc.  
DX Terminals  
PO Box 24600  
Houston , TX 77229-4600  
**Emergency :**  
**CHEMTREC (USA)** (800) 424-9300  
**24 hour Emergency Telephone No.** (281) 457-4888  
www.dxgroup.com

## 2. Hazard identification of the product

<b>Physical hazards</b>	May intensify fire; oxidizer	Category 2
<b>Health hazards</b>	Causes skin irritation Causes serious eye damage May cause respiratory irritation	Category 1 Category 1 Category 3
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard.	Category 3
<b>Label elements</b> Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.		
		
<b>Signal Word</b>	<b>Danger</b>	
<b>Hazard Statements</b>	May cause fire or explosion; strong oxidizer. Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Harmful to aquatic life.	
<b>Precautionary Statements</b>		
<b>Prevention</b>	Keep only in original container and away from incompatible materials. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Do not breathe mist or vapor. Wash thoroughly after handling. Avoid release to the environment	
<b>Response</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately contact POISON CENTER or doctor/physician. IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with shower/ water. Wash contaminated clothing before reuse. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - Continue rinsing. Immediately call a POISON CENTER or doctor / physician.	
<b>Storage</b>	Store in a well ventilated place. Keep container tightly closed when not in use. Store locked up.	
<b>Disposal</b>	Dispose of contents / container in accordance with local / national regulations.	

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## 3. Composition/information on ingredients

Synonyms: Hydroperoxide, Hydrogen dioxide, Hydrogen peroxide, aqueous solution, Peroxide

Ingredient	CAS Number	Weight %	
Hydrogen Peroxide	7722-84-1	25 - 50	Substance classified with a health or environmental hazard. Substance with a workplace exposure limit.

## 4. First aid measures

<b>General</b>	Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
<b>Inhalation</b>	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
<b>Eyes</b>	Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
<b>Skin</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water for at least 15-20 minutes. Get medical attention immediately. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes.
<b>Ingestion</b>	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. Immediately rinse mouth and drink plenty of water. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give anything by mouth to an unconscious person.

## Most important symptoms and effects, both acute and delayed

<b>Overview</b>	Corrosive – may cause irritation and burns to eyes, skin, respiratory tract, and digestive tract. Breathing difficulties, Cough, Pulmonary edema, Nausea, Vomiting, Nose bleeding, chronic bronchitis, Redness, Lachrymation, Swelling of tissue, Nausea, Abdominal pain, Bloody vomiting, Diarrhea, Suffocation, Cough, and Shortness of breath.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Causes serious eye damage. May be harmful in contact with skin. May be harmful if swallowed.

## 5. Fire-fighting measures

<b>Extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Use media appropriate for surrounding area.
<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Special hazards arising from the substance or mixture</b>	Product components will burn producing oxygen. Do not breathe mist / vapors / spray.
<b>Special protective equipment and precautions for firefighters</b>	Fire fighters should enter the area only if they are protected from all contact with the material. Full protective clothing, including self-contained breathing apparatus, coat, pants, gloves, boots and bands around legs, arms, and waist, should be worn. No skin surface should be exposed
<b>Advice for fire-fighters</b>	Fire fighters should enter the area only if they are protected from all contact with the material. Full protective clothing, including self-contained breathing apparatus, coat, pants, gloves, boots and bands around legs, arms, and waist, should be worn. No skin surface should be exposed. Move containers from fire area if you can do so without risk. Use water spray to cool containers.  <b>ERG Guide No. 140</b>

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## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe mist or vapor. Use only with adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained.
<b>Environmental precautions</b>	Avoid discharge into drains, waterways or onto ground. If material enters waterway, contact authorities. Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.
<b>Methods and material for containment and cleaning up</b>	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Large spills may be neutralized with sodium bicarbonate or lime. Small spills may be absorbed with inert material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Use only in well-ventilated areas. Before all operations, passivate the piping circuits and vessels according to the procedure recommended by the producer. Use only clean and dry utensils. Never return unused material to storage receptacle. May not get in touch with: Organic materials. Keep away from Incompatible products. Keep away from heat. Observe good industrial hygiene practices.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep in a cool, well-ventilated place. Protect containers from physical damage. Store on flame retardant pallets. Keep away from heat. Keep away from Incompatible products. Keep away from combustible material. Store in a receptacle equipped with a vent. Store in original container. Keep container closed. Regularly check the condition and temperature of the containers.

## 8. Exposure controls and personal protection

### Control Parameters

### Occupational Exposure Limits

CAS No.	Ingestion	Source	Value
7722-84-1	Hydrogen Peroxide	OSHA	TWA: 1 ppm (1.4 mg/m3)
		ACGIH	TWA: 1 ppm
		NIOSH	TWA: 1 ppm (1.4 mg/m3)

### Exposure controls

<b>Eyes</b>	Wear chemical goggles and/or face shield.
<b>Skin</b>	Chemical resistant clothing such as coveralls/apron boots should be worn. Chemical impervious gloves.
<b>Respiratory protection</b>	Use NIOSH/MSHA approved respirator, following manufacturer's recommendations when concentrations exceed permissible exposure limits.
<b>Other Work Practices</b>	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. Routinely wash work clothing and protective equipment to remove contaminants.
<b>Engineering Controls</b>	Provide local exhaust, preferably mechanical. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Eye wash facilities and emergency shower must be available when handling this product.

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## 9. Physical and chemical properties

<b>Physical State</b>	Liquid
<b>Appearance</b>	Colorless to Slightly Hazy Liquid
<b>Odor</b>	Odorless
<b>Odor threshold</b>	Not Applicable
<b>pH</b>	2 - 5
<b>Melting point / freezing point</b>	2 - 68 F
<b>Initial boiling point and boiling range</b>	217 - 257 F
<b>Flash Point</b>	Not Applicable
<b>Evaporation rate</b>	> 1
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	Not Applicable
<b>Vapor pressure (Pa)</b>	15-28 (@77F)
<b>Relative Density</b>	Not established
<b>Specific Gravity</b>	1.05 - 1.25
<b>Solubility in Water</b>	Complete
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Measured
<b>Auto-ignition temperature (°C)</b>	Not Measured
<b>Decomposition temperature</b>	Not Measured
<b>Viscosity (cSt)</b>	Not Measured
<b>VOC %</b>	Not Measured

## 10. Stability and reactivity

<b>Reactivity</b>	Hazardous polymerization will not occur.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Will not occur.
<b>Conditions to avoid</b>	Contamination. To avoid thermal decomposition, do not overheat.
<b>Incompatible materials</b>	Acids, Bases, Metals, Heavy metal salts, Powdered metal salts, Reducing agents, Organic materials, Flammable materials.
<b>Hazardous decomposition products</b>	Oxygen which supports combustion.

## 11. Toxicological information

<b>Ingredient</b>	<b>Oral LD50, mg/kg</b>	<b>Skin LD50, mg/kg</b>	<b>Inhalation Vapor LC50, mg/L/4hr</b>	<b>Inhalation Dust/Mist LC50, mg/L/4hr</b>
Hydrogen Peroxide (7722-84-1)	801 Rat	2000 Rat	2 Rat	No data available

<b>Ingestion</b>	Causes irritation and pain.
<b>Inhalation</b>	May cause irritation to the respiratory system.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye damage.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Skin contact may cause redness, burning, itching and pain. Eye burns, pain, watering eyes. Coughing, shortness of breath, burning, choking, coughing, wheezing, laryngitis, headache or nausea if inhaled. Causes irritation and pain if swallowed.
<b>Acute toxicity (oral)</b>	May be harmful if swallowed.
<b>Acute Toxicity (skin)</b>	May be harmful in contact with skin.
<b>Acute Toxicity (inhalation)</b>	Toxic if inhaled.
<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Eye damage/irritation</b>	Causes serious eye damage.
<b>Sensitization (respiratory)</b>	Not Applicable
<b>Sensitization (skin)</b>	Not Applicable
<b>Germ toxicity</b>	Not Applicable.

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## 11. Toxicological information (Cont.)

<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Reproductive Toxicity</b>	Not Applicable.
<b>Specific target organ systemic toxicity (single exposure)</b>	Not Applicable.
<b>Specific target organ systemic Toxicity (repeated exposure)</b>	Not Applicable.
<b>Aspiration hazard</b>	Not Applicable.
<b>Chronic effects</b>	Not available.

## 12. Ecological information

**Toxicity** - Harmful to aquatic life.

### Aquatic Ecotoxicity

Ingredient	96 hr. LC50 fish, mg/l	48 hr. EC50 crustacea, mg/l	72 hr. ErC50 algae, mg/l
Hydrogen Peroxide 7722-84-1	22.00 Oncorhynchus mykiss	2.32 Daphnia magna	0.71 Microcystis pulvereae ssp. incerta

<b>Persistence and degradability</b>	Readily biodegradable .
<b>Bioaccumulative potential</b>	The product is not expected to bioaccumulate.
<b>Mobility in soil</b>	No data available.
<b>PBT and vPvB assessment</b>	This product contains no PBT/vPvB chemicals
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

<b>Waste treatment methods:</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Waste from material:</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
<b>Container Management:</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

<b>Transport hazard class(es)</b>	
<b>UN / NA Number:</b>	UN2015
<b>UN Proper shipping name</b>	Hydrogen Peroxide, Aqueous Solution
<b>DOT (Domestic Surface Transportation)</b>	
<b>DOT Proper Shipping Name:</b>	Hydrogen Peroxide, Aqueous Solution
<b>DOT Hazard Class</b>	5.1
<b>DOT Label:</b>	5.1
<b>DOT Packing Group:</b>	II
<b>CERCLA/DOT RQ:</b>	Not applicable
<b>Environmental hazards:</b>	IMDG Marine Pollutant: No

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## 15. Regulatory information

<b>Regulatory Overview:</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory.	
<b>US EPA Tier II Hazards:</b>	<b>Fire:</b>	No
	<b>Sudden Release of Pressure:</b>	Yes
	<b>Reactive:</b>	Yes
	<b>Immediate (Acute):</b>	Yes
	<b>Delayed (Chronic):</b>	No
<b>SARA 302 Extremely Hazardous Substance:</b>		No
<b>SARA 311/312 Chemicals :</b>		Yes
<b>SARA 313 (TRI)</b>		No
<b>CAA Section 112 Hazardous Air Pollutant</b>		No
<b>CAA Section 112R Risk Management Plan</b>		No
<b>State Regulations:</b>	<b>N.J. RTK Substances (&gt;1%)</b>	Listed
	<b>Penn RTK Substances (&gt;1%)</b>	Listed
	<b>California Prop 65</b>	Not listed

## 16. Other information

**Revision Information:** This is the first revision of this SDS format, changes from previous revision not applicable.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

THE USER IS CAUTIONED TO PERFORM HIS OWN HAZARD EVALUATION AND TO RELY ON HIS OWN DETERMINATIONS.