



HYDROX SHP 12

SDS Preparation Date (mm/dd/yyyy): 12/18/2018

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label

: **HYDROX SHP 12**

Product Code(s) : SC652.01

Recommended use of the chemical and restrictions on use

: Wastewater Treatment Solution / Industrial Cleaning Solution  
Recommended restrictions: No restrictions on use known.

Chemical family : Mixture

Name, address, and telephone number  
of the supplier:

**CONCEPTUAL TECHNOLOGIES INC**

6812/14-78 Avenue NW  
Edmonton, AB, Canada  
T6B 2J5

Supplier's Telephone # : 780-466-6146 [9:00 am - 5:00 pm]

**24 Hr. Emergency Tel #** : 780-466-6146

Name, address, and telephone number of  
the manufacturer:

Refer to supplier

### SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear amber liquid. Characteristic odour.

Most important hazards: May be corrosive to metals. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Ingestion may cause severe burns to the mucous membranes of the digestive tract. May cause an allergic skin reaction. Contains material which can cause birth defects based on animal data. Avoid release to the environment.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

Corrosive to Metals - Category 1

Skin Irritation - Category 2

Eye Damage/Irritation - Category 1

Skin sensitization -Category 1B

Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory)

Reproductive Toxicity - Category 2

Label elements

Hazard pictogram(s)



Signal Word

**DANGER!**



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*Hazard statement(s)*

May be corrosive to metals.  
Causes skin irritation.  
Causes serious eye damage.  
May cause an allergic skin reaction.  
May cause respiratory irritation.  
Suspected of damaging the unborn child.

*Precautionary statement(s)*

Do not handle until all safety precautions have been read and understood.  
Obtain special instructions before use.  
Keep only in original container.  
Avoid breathing mist or vapours.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/clothing and eye/face protection.

IF exposed or concerned: Get medical attention/advice.  
If on skin: Wash with plenty of water.  
Take off contaminated clothing and wash it before reuse.  
If skin irritation or rash occurs: Get medical advice/attention.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTRE or doctor/physician if you feel unwell.  
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 or doctor/physician.  
Absorb spillage to prevent material damage.

Store in corrosive resistant container with a resistant inner liner.  
Store locked up.  
Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local regulation.

**Other hazards**

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. Chronic skin contact with low concentrations may cause dermatitis.  
Contact with metals may release small amounts of flammable hydrogen gas.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Mixture

<b>Chemical name</b>	<b>Common name and synonyms</b>	<b>CAS #</b>	<b>Concentration (% by weight)</b>
<b>Phosphonic acid, (1-hydroxyethylidene)bis-</b>	Etidronic Acid	2809-21-4	<b>15.0 - 40.0</b>
<b>Hydrogen peroxide</b>	Dihydrogen dioxide	7722-84-1	<b>10.0 - 30.0</b>
<b>Dipropylene glycol methyl ether</b>	1-(2-Methoxypropoxy) -2-propanol DPGME	34590-94-8	<b>1.0 - 5.0</b>
<b>Imidazolium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or 3)-(2-carboxyethyl)-4,5-dihydro-2-norcoco alkyl, hydroxides, disodium salts</b>	Not available.	68604-71-7	<b>1.0 - 5.0</b>



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Methanol	Carbinol Methyl alcohol Methyl hydrate	67-56-1	0.1 - 1.0
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The exact concentrations of the above listed chemicals are being withheld as a trade secret.

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Seek immediate medical attention/advice.
- Inhalation* : Immediately remove person to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin contact* : Flush with large amounts of water for 15 minutes. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
- Eye contact* : Wear appropriate protective equipment. Protect unharmed eye. If in contact with eyes, immediately flush eyes with running water for at least 20 minutes. If contact lens is present, DO NOT delay flushing or attempt to remove the lens until flushing is done. Obtain medical attention immediately.

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

- : Causes skin irritation. Symptoms may include redness, itching and swelling. Causes serious eye damage. Symptoms may include severe pain, blurred vision, redness and corrosive damage. May cause respiratory irritation. Symptoms may include coughing, choking and wheezing. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed. May cause an allergic skin reaction (e.g. swelling, rash and eczema). May be harmful if swallowed. Contains methanol. Methanol is known to cause appreciable eye irritation, and possible blindness. Symptoms may include abdominal pain, vomiting, burns, perforations and bleeding. Ingestion may cause severe burns to the mucous membranes of the digestive tract. Suspected of damaging fertility or the unborn child.

#### Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Treat symptomatically. Contains methanol.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

##### *Suitable extinguishing media*

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical. Use water spray with caution.

##### *Unsuitable extinguishing media*

- : Do not use a solid water stream as it may scatter and spread fire.

#### Special hazards arising from the substance or mixture / Conditions of flammability

- : Not considered flammable. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Contact with most metals will generate flammable hydrogen gas. Contains oxidizers, which may increase the burning rate of combustible materials with flare-burning effect.

#### Flammability classification (OSHA 29 CFR 1910.106)

- : Not flammable.

#### Hazardous combustion products

- : Phosphorus oxides, Carbon oxides, Oxygen

#### Special protective equipment and precautions for firefighters

##### *Protective equipment for fire-fighters*

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.



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### *Special fire-fighting procedures*

- : Move containers from fire area if safe to do so. Use water to cool fire-exposed containers. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply or any natural waterway. Dike for water control.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

- : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

**Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

### **Methods and material for containment and cleaning up**

- : Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Dike for water control. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.

### **Special spill response procedures**

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).  
US CERCLA Reportable quantity (RQ): See section 15.

## SECTION 7. HANDLING AND STORAGE

### **Precautions for safe handling**

- : Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from heat and flame. Keep away from incompatibles. Keep only in original container. Keep containers tightly closed when not in use. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used.

**Conditions for safe storage** : Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Store in corrosion-resistant containers. Store locked up.

**Incompatible materials** : Combustible materials., Metals (e.g. tin, aluminum, zinc and alloys containing these metals), Strong reducing agents.



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### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Phosphonic acid, (1-hydroxyethylidene)bis-	N/Av	N/Av	N/Av	N/Av
Hydrogen peroxide	1 ppm	N/Av	1 ppm ; 1.4 mg/m <sup>3</sup>	N/Av
Dipropylene glycol methyl ether	100 ppm (skin)	150 ppm (skin)	100 ppm (600 mg/m <sup>3</sup> ) (skin)	N/Av
Imidazolium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or 3)-(2-carboxyethyl) -4,5-dihydro-2-norcoco alkyl, hydroxides, disodium salts	N/Av	N/Av	N/Av	N/Av
Methanol	200 ppm (skin)	250 ppm (skin)	200 ppm (260 mg/m <sup>3</sup> )	N/Av

#### Exposure controls

##### Ventilation and engineering measures

: Use only in well-ventilated areas. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

##### Respiratory protection

: Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Seek advice from respiratory protection specialists.

##### Skin protection

: Wear protective gloves/clothing. Advice should be sought from glove suppliers. Wear appropriate protective clothing to prevent skin contact, such as coveralls or long sleeved shirt, long pants, and shoes and socks.

##### Eye / face protection

: Chemical splash goggles must be worn when handling this material. A full face shield may also be necessary.

##### Other protective equipment

: An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

##### General hygiene considerations

: Avoid breathing mist or vapor. Do not ingest. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Clear amber liquid.
Odour	: Characteristic odour.
Odour threshold	: Not applicable.
pH	: 3.5-4
Melting/Freezing point	: -10°C
Initial boiling point and boiling range	: 110°C
Flash point	: Not applicable.
Flashpoint (Method)	: Not applicable.
Evaporation rate (BuAe = 1)	: N/Av
Flammability (solid, gas)	: Not applicable.



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**Lower flammable limit (% by vol.)**

: Not applicable.

**Upper flammable limit (% by vol.)**

: Not applicable.

**Oxidizing properties**

: Contains oxidizers, which may increase the burning rate of combustible materials with flare-burning effect.

**Explosive properties**

: Not explosive

**Vapour pressure**

: Not available.

**Vapour density**

: Not available.

**Relative density / Specific gravity**

: 1.04

**Solubility in water**

: Very soluble

**Other solubility(ies)**

: Not available.

**Partition coefficient: n-octanol/water or Coefficient of water/oil distribution**

: Not available.

**Auto-ignition temperature**

: Not applicable.

**Decomposition temperature**

: Not available.

**Viscosity**

: 1.057 cSt

**Volatiles (% by weight)**

: Not available.

**Volatile organic Compounds (VOC's)**

: Not available.

**Absolute pressure of container**

: Not applicable.

**Flame projection length**

: Not applicable.

**Other physical/chemical comments**

: None known or reported by the manufacturer.

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity**

: Not normally reactive. May be corrosive to metals. Contact with most metals will generate flammable hydrogen gas.

**Chemical stability**

: Material is stable under normal conditions.

**Possibility of hazardous reactions**

: Hazardous polymerization does not occur.

**Conditions to avoid**

: Avoid heat and open flame. Keep away from incompatibles. Keep away from combustible material. Keep container tightly closed when not in use.

**Incompatible materials**

: See Section 7 (Handling and Storage) for further details.

**Hazardous decomposition products**

: None known, refer to hazardous combustion products in Section 5.

### SECTION 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure:**

**Routes of entry inhalation** : YES

**Routes of entry skin & eye** : YES

**Routes of entry Ingestion** : YES

**Routes of exposure skin absorption**

: NO



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### Potential Health Effects:

#### Signs and symptoms of short-term (acute) exposure

##### *Sign and symptoms Inhalation*

- : May cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, choking and wheezing. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

##### *Sign and symptoms ingestion*

- : May be harmful if swallowed. Contains methanol. Methanol is known to cause appreciable eye irritation, and possible blindness. Ingestion may cause severe burns to the mucous membranes of the digestive tract.

##### *Sign and symptoms skin*

- : Causes skin irritation. Symptoms may include redness, itching and swelling.

##### *Sign and symptoms eyes*

- : Causes serious eye damage. Symptoms may include severe pain, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result.

#### Potential Chronic Health Effects

- : Chronic skin contact with low concentrations may cause dermatitis.

#### Mutagenicity

- : Not expected to be mutagenic in humans.

#### Carcinogenicity

- : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

#### Reproductive effects & Teratogenicity

- : This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Reproductive Toxicity - Category 2 Suspected of damaging fertility or the unborn child. Contains Methanol. Methanol may cause fetotoxic and teratogenic effects at doses which are not maternally toxic, based on animal data.

#### Sensitization to material

- : May cause an allergic skin reaction (e.g. swelling, rash and eczema). Not expected to be a respiratory sensitizer.

#### Specific target organ effects

- : Target Organs: Eyes, skin, respiratory system and digestive system.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Classification: Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory) May cause respiratory irritation.

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### Medical conditions aggravated by overexposure

- : Pre-existing skin, eye and respiratory disorders.

#### Synergistic materials

- : Not available.

#### Toxicological data

- : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data. The calculated ATE values for this mixture are: ATE oral = 7136.08 mg/kg



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<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u> <u>inh, rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Phosphonic acid, (1-hydroxyethylidene)bis-	N/Av	2400 mg/kg	N/Av
Hydrogen peroxide	0.17 mg/L 4 h (no deaths)	1193 mg/kg	>2000 mg/kg
Dipropylene glycol methyl ether	> 3 mg/L (mist) (No mortality)	5120 mg/kg	9480 mg/kg
Imidazolium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or 3)-(2-carboxyethyl)-4,5-dihydro-2-norcoco alkyl, hydroxides, disodium salts	N/Av	N/Av	N/Av
Methanol	> 5000 ppm/6H (4.1 mg/L/4H (vapour))	5628 mg/kg (rat) The estimated human lethal dose is: 300 - 1000 mg/kg	> 393 mg/kg (Monkey) 15 800 mg/kg (rabbit)

**Other important toxicological hazards**

: None known or reported by the manufacturer.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** : Not expected to be harmful to aquatic organisms. However, these ingredients are present at such low levels, they are not expected to affect environmental toxicity. Avoid release to the environment.

**Ecotoxicity data:**

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Phosphonic acid, (1-hydroxyethylidene)bis-	2809-21-4	195mg/L	N/Av	None.
Hydrogen peroxide	7722-84-1	16.4mg/L (Fathead minnow)	N/Av	None.
Dipropylene glycol methyl ether	34590-94-8	> 10,000 mg/L (Fathead minnow)	N/Av	None.
Methanol	67-56-1	15 400 mg/L (Bluegill sunfish)	446.7 mg/L/28-day (Fathead minnow) (QSAR)	None.

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Daphnia</u>		
		<u>EC50 / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Phosphonic acid, (1-hydroxyethylidene)bis-	2809-21-4	527mg/L (Daphnia magna)	6.75mg/L (Daphnia magna)	None.
Hydrogen peroxide	7722-84-1	2.4mg/L Water flea	N/Av	None.
Dipropylene glycol methyl ether	34590-94-8	1919 mg/L (Daphnia magna)	≥ 0.5 mg/L	None.
Methanol	67-56-1	> 10 000 mg/L (Daphnia magna)	208 mg/L (QSAR)	None.





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<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Algae</u>		
		<u>EC50 / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
Phosphonic acid, (1-hydroxyethylidene)bis-	2809-21-4	7.25 mg/L (Green algae)	N/Av	None.
Hydrogen peroxide	7722-84-1	N/Av	0.63 mg/L (Green algae)	None.
Dipropylene glycol methyl ether	34590-94-8	> 969 mg/L/72hr (Green algae)	969 mg/L/72hr	None.
Methanol	67-56-1	22 000 mg/L/96hr (Green algae)	N/Av	None.

**Persistence and degradability**

: No data is available on the product itself.

**Bioaccumulation potential**

: No data is available on the product itself.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Phosphonic acid, (1-hydroxyethylidene)bis- (CAS 2809-21-4)	3.49	<50 BCF method: OECD 305
Hydrogen peroxide (CAS 7722-84-1)	1.50	no bioaccumulation
Dipropylene glycol methyl ether (CAS 34590-94-8)	0.0061	< 1
Methanol (CAS 67-56-1)	- 0.82 to - 0.64	< 10 (common carp)

**Mobility in soil**

: No data is available on the product itself.

**Other Adverse Environmental effects**

: No data is available on the product itself.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Handling for Disposal**

: Handle waste according to recommendations in Section 7.

**Methods of Disposal**

: Dispose in accordance with all applicable federal, state, provincial and local regulations.

**RCRA**

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. For disposal of unused or waste material, check with local, state and federal environmental agencies.







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### SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN1760	CORROSIVE LIQUID, N.O.S. (Phosphonic acid, (1-hydroxyethylidene)bis)	8	II	
<b>TDG Additional information</b>	May be shipped as LIMITED QUANTITY when transported in quantities no larger than 1 Litre, in packages not exceeding 30 kg gross mass.				
49CFR/DOT	UN1760	Corrosive liquid, n.o.s. (Phosphonic acid, (1-hydroxyethylidene)bis)	8	II	
<b>49CFR/DOT Additional information</b>	May be shipped as a limited quantity in receptacles not exceeding 1.0 Liters, according to 49 CFR 173.154.				
ICAO/IATA	UN1760	Corrosive liquid, n.o.s. (Phosphonic acid, (1-hydroxyethylidene)bis)	8	II	
<b>ICAO/IATA Additional information</b>	Refer to ICAO/IATA Packing Instruction				
IMDG	UN1760	CORROSIVE LIQUID, N.O.S. (Phosphonic acid, (1-hydroxyethylidene)bis)	8	II	
<b>IMDG Additional information</b>	Consult the IMDG regulations for exceptions.				

**Special precautions for user** : None reported by the manufacturer.

**Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
 : Not available.

### SECTION 15 - REGULATORY INFORMATION

**US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:



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<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Phosphonic acid, (1-hydroxyethylidene)bis-	2809-21-4	Yes	None.	N/Av	No	N/Ap
Hydrogen peroxide	7722-84-1	Yes	N/Ap	1000 lb TPQ (concentration >52%)	No	N/Ap
Dipropylene glycol methyl ether	34590-94-8	Yes	None.	None.	No	N/Ap
Imidazolium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or 3)-(2-carboxyethyl)-4,5-dihydro-2-norcoco alkyl, hydroxides, disodium salts	68604-71-7	Yes	N/Ap	N/Av	No	N/Ap
Methanol	67-56-1	Yes	5000 lbs / 2270 kg	None.	Yes	1%

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Corrosive to metals; Skin irritation; Eye Damage; Skin sensitization; Reproductive toxicity; Specific target organ toxicity, single exposure. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

**US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Phosphonic acid, (1-hydroxyethylidene)bis-	2809-21-4	No	N/Ap	No	No	No	No	No	No
Hydrogen peroxide	7722-84-1	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Dipropylene glycol methyl ether	34590-94-8	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Imidazolium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or 3)-(2-carboxyethyl)-4,5-dihydro-2-norcoco alkyl, hydroxides, disodium salts	68604-71-7	No	N/Ap	No	No	No	No	No	No
Methanol	67-56-1	Yes	Developmental	Yes	Yes	Yes	Yes	Yes	Yes

**Canadian Information:**

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).



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### International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECs</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>NewZealand IOC</u>
Phosphonic acid, (1-hydroxyethylidene)bis-	2809-21-4	220-552-8	Present	Present	(2)-2936; (2)-1866	KE-20516	Present	HSR003147
Hydrogen peroxide	7722-84-1	231-765-0	Present	Present	(1)-419	KE-20204	Present	HSR001326, HSR001449, HSR001450 (dilution)
Dipropylene glycol methyl ether	34590-94-8	252-104-2	Present	Present	(7)-97; (2)-426	KE-12230	Present	HSR001402
Imidazolium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or 3)-(2-carboxyethyl)-4,5-dihydro-2-norcoco alkyl, hydroxides, disodium salts	68604-71-7	271-704-5	Present	Present	(7)-313	KE-20945	Present	N/Av
Methanol	67-56-1	200-659-6	Present	Present	(2)-201	KE-23193	Present	HSR001186

### SECTION 16. OTHER INFORMATION

#### Legend

: ACGIH: American Conference of Governmental Industrial Hygienists  
CA: California  
CAS: Chemical Abstract Services  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
CFR: Code of Federal Regulations  
CSA: Canadian Standards Association  
DOT: Department of Transportation  
EPA: Environmental Protection Agency  
HMIS: Hazardous Materials Identification System  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
IMDG: International Maritime Dangerous Goods  
Inh: Inhalation  
LC: Lethal Concentration  
LD: Lethal Dose  
MA: Massachusetts  
MN: Minnesota  
N/Av: Not Applicable  
N/Av: Not Available  
NFPA: National Fire Protection Association  
NIOSH: National Institute of Occupational Safety and Health  
NJ: New Jersey  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PA: Pennsylvania  
PEL: Permissible exposure limit  
RCRA: Resource Conservation and Recovery Act  
RI: Rhode Island  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit



**HYDROX SHP 12**

**SDS Preparation Date (mm/dd/yyyy): 12/18/2018**

**SAFETY DATA SHEET**

TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
 TLV: Threshold Limit Values  
 TWA: Time Weighted Average  
 WHMIS: Workplace Hazardous Materials Identification System

**References**

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018.
- 2. International Agency for Research on Cancer Monographs, searched 2018.
- 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2018 (Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists - March 2015 version.
- 6. California Proposition 65 List - November 23, 2018 version.
- 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2018.

**Preparation Date (mm/dd/yyyy)**

: 12/18/2018

**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

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