



Zep Inc.  
11627 178th Street  
Edmonton, Alberta T5S 1N6  
1-800-1-BUY-ZEP www.zep.com

# Material Safety Data Sheet

## and Safe Handling and Disposal Information

### Section 1. Chemical Product and Company Identification

**Product name** ZEP A.I.O. (X-1802)  
**Product Use** Concentrated Cleaner and Deodorant  
**Product Code** 5064  
**Date of issue** 06/04/10 **Supersedes** 09/07/07

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**Emergency For MSDS Information:**  
**Telephone Numbers** Technical Services Group  
 Zep Inc.  
 Telephone: (780) 453-8100 (Business Hours 8:00-5:00)

**For a Medical or Transportation Emergency:**  
 CANUTEC (24 Hours)  
 (613) 996-6666 - Call Collect

**Prepared by** Technical Services Group  
 Zep Inc.  
 11627 178th Street  
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### Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Toxicity Data			
HYDROGEN PEROXIDE; peroxide	7722-84-1	5 - 10	LD50	Rat	Oral	1232 mg/kg
DIPROPYLENE GLYCOL N-PROPYL ETHER; 2-propanol, 1-(1-methyl-2-propoxyethoxy)	29911-27-1	3 - 7	LD50	Rat (Male)	Oral	>2000 mg/kg
			LD50	Rat (Female)	Oral	>1500 mg/kg
			LD50	Rabbit	Dermal	>2000 mg/kg
QUATERNARY AMMONIUM CHLORIDES; blend of alkyl dimethylbenzyl ammonium chlorides, alkyl dimethyl ethylbenzyl ammonium chlorides, and ethanol	68391-01-5; 68956-79-6; 64-17-5	1 - 5	LD50	Rat	Oral	>500 mg/kg
			LD50	Rabbit	Dermal	>2000 mg/kg
NONYLPHENOXY POLY(ETHYLENEOXY) ETHANOL - npe poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydro-	9016-45-9	1 - 5	LD50	Rat	Oral	3310 mg/kg
			LD50	Rabbit	Dermal	2000 mg/kg

### Section 3. Hazards Identification

#### Acute Effects

**Routes of Entry** Dermal contact. Inhalation Eye contact.

**Skin** Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, or reddening. Prolonged contact can cause severe irritation or even burns.

**Eyes** Hazardous in case of eye contact (irritant). Prolonged contact with eye tissue may cause severe and permanent eye injury.

**Inhalation** Hazardous in case of inhalation (irritant). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract.

**Ingestion** No data on acute toxicity of the product when ingested.

#### Chronic Effects

There is no known effect from chronic exposure to this product.

**Additional information :** See Toxicological Information (section 11)

### Section 4. First Aid Measures

**Eye Contact** Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin Contact** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops.

**Inhalation** If inhaled, remove to fresh air. If irritation persists, get medical attention.

**Ingestion** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

### Section 5. Fire Fighting Measures

**Flash Point** None. **Flammable Limits** Not determined.

**Flammability** Non combustible

#### Auto-ignition Temperature

**Fire-Fighting Procedures** Wear special protective clothing and positive pressure, self-contained breathing apparatus.

**Fire Hazard** Substance releases oxygen when heated, which may increase the severity of an existing fire. Cool closed containers exposed to fire with water.

**Products of Combustion** Exposure to heat and exposure to sunlight accelerates decomposition.

**Explosion hazard**

**Section 6. Accidental Release Measures**

**Spill Clean up** Put on appropriate personal protective equipment (see Section 8). Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Section 7. Handling and Storage**

**Handling** Avoid contact with eyes, skin and clothing. Do not wear leather. Wash contaminated clothing before reusing.  
**Storage** Do not store below 0°C or above 35°C. Keep away from heat and direct sunlight. Exposure to heat and sunlight accelerates decomposition. Avoid contact with wood. Keep out of the reach of children.

**Section 8. Exposure Controls, Personal Protection**

**Engineering Controls** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

**Personal Protection**

**Eyes** Splash goggles.

**Hands and Body** Neoprene, Nitrile, or Rubber Gloves

**Respiratory** Use with adequate ventilation. Avoid breathing vapors or spray mists.

**Protective Clothing (Pictograms)****Exposure Limits**

Name of Hazardous Ingredients	CAS #	Exposure Limits
Hydrogen Peroxide	7722-84-1	ACGIH TLV (United States). TWA: 1 ppm 8 hour(s). OSHA PEL (United States). TWA: 1 ppm 8 hour(s).

Consult local authorities for acceptable exposure limits.

**Section 9. Physical and Chemical Properties**

<b>Physical State</b>	Thin liquid	<b>Color</b>	Green. Clear.
<b>pH</b>	3.5-4.0	<b>Odor</b>	Pleasant.
<b>Boiling Point</b>	104.4°C (220°F)	<b>Vapor Pressure</b>	Not determined.
<b>Freezing Point</b>	Not available.	<b>Vapor Density</b>	Not determined.
<b>Specific Gravity</b>	1.03 (Water = 1)	<b>Evaporation Rate</b>	1 compared to Water
<b>Solubility</b>	Easily soluble in cold water, hot water.	<b>VOC (Consumer)</b>	0.15% 1.5 (g/l)

**Section 10. Stability and Reactivity**

**Stability and Reactivity** The product is stable.  
**Incompatibility** Reactive with Flammables, Cyanides, oxidizing agents, and reducing agents.  
**Reactivity** Will not occur.

**Hazardous Decomposition Products** Exposure to heat and exposure to sunlight accelerates decomposition.

**Section 11. Toxicological Information**

**Carcinogenic Effects** Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

**Reproductive Effects**

**Mutagenic Effects**

**Teratogenic Effects**

**Section 12. Ecological Information**

**Ecotoxicity** Not available.

**Biodegradable/OECD** Not available.

**Section 13. Disposal Considerations**

**Waste Information** Waste must be disposed according to applicable regulations. Consult your local or regional authorities.  
**Waste Stream** Code: - (None.)  
Classification: - (Non-hazardous waste)

**Section 14. Transport Information**

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
TDG Classification			Not a TDG controlled material.			

Limited Quantity: Small quantities of controlled goods are not regulated as Dangerous Goods according to the TDG regulations.

**Section 15. Regulatory Information****WHMIS (Canada)**

Class D-2B: Material causing other toxic effects (TOXIC).

**Other Regulations**

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

**Section 16. Other Information**

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*