

MATERIAL SAFETY DATA SHEET

ARC 4650 PRESOAK 30GL

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: ARC 4650 PRESOAK 30GL
Product Number: 30023733
Product Use: Cleaner.
Manufacturer/Supplier: Zep Inc.
1310 Seaboard Industrial Blvd.
Atlanta, GA 30318
Phone Number: 1-877-I-BUY-ZEP (428-9937)
Emergency Phone: MSDS Information: Compliance Services 1-877-793-7776
Medical Emergency: INFOTRAC 1-877-541-2016
Transportation Emergency: CHEMTREC 1-800-424-9300
Date of Preparation: July 30, 2015

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER

VERY TOXIC BY INHALATION. CORROSIVE MATERIAL - CAUSES BURNS. MAY CAUSE SKIN SENSITIZATION. MAY CAUSE RESPIRATORY SENSITIZATION.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, eye contact, inhalation, and ingestion.

Eye: Causes burns.
Skin: Causes burns. May cause sensitization by skin contact.
Ingestion: Causes burns. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
Inhalation: Very toxic by inhalation. May cause respiratory tract irritation.

Chronic Effects: No information is available on the product as a whole.

Signs and Symptoms: May cause serious chemical burns. Severe irritation, redness and pain.

Medical Conditions Aggravated By Exposure: Asthma. Allergies.

Target Organs: Skin, eyes, gastrointestinal tract, respiratory system.

Potential Environmental Effects: May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Wt. %
Benzenesulfonic acid, C10-16-alkyl derivs.	68584-22-5	5 - 10
Sulfuric acid	7664-93-9	5 - 10
Sodium xylenesulphonate	1300-72-7	5 - 10
Citric acid	77-92-9	1 - 5
Sulfonic acids, petroleum, sodium salts	68608-26-4	1 - 5
1,2-Ethanediamine, polymer with methyloxirane and oxirane	26316-40-5	1 - 5
Hydrofluoric acid	7664-39-3	0.1 - 1
Benzaldehyde	100-52-7	0.1 - 1

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Section 4: FIRST AID MEASURES

- Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
- Skin Contact:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If you feel unwell, seek medical advice immediately.
- Ingestion:** If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention or call poison control immediately.
- General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).
- Note to Physicians:** Symptoms may not appear immediately.

Section 5: FIRE FIGHTING MEASURES

Flammability: Not flammable by WHMIS criteria.

Means of Extinction:

Suitable Extinguishing Media: Powder, water spray, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream.

Products of Combustion: May include, and are not limited to: oxides of carbon, oxides of nitrogen, oxides of sulfur.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Protection of Firefighters: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental Precautions: Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Clean-Up: Scoop up material and place in a disposal container. Provide ventilation.

Other Information: Not available.

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Section 7: HANDLING AND STORAGE

Handling:

Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Handle and open container with care. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

Storage:

Keep locked up and out of reach of children. Keep container tightly closed and in a well-ventilated place. Store in a cool place, away from incompatibles.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Ingredient

Benzenesulfonic acid, C10-16-alkyl derivs.

Sulfuric acid

Sodium xylenesulphonate

Citric acid

Sulfonic acids, petroleum, sodium salts

1,2-Ethanediamine, polymer with methyloxirane and oxirane

Hydrofluoric acid

Benzaldehyde

Exposure Limits

ACGIH-TLV

Not available.

0.2 mg/m³

Not available.

Not available.

Not available.

Not available.

0.5 ppm (as F)

Not available.

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment:

Eye/Face Protection: Wear approved dust- or splash-proof safety glasses (properly fitted) and facial protection (face shield).

Hand Protection: Wear chemical resistant gloves.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Not available.
Colour:	Colourless.
Odour:	Slight odour.
Odour Threshold:	Not available.
Physical State:	Liquid.
pH:	< 1
Viscosity:	Not available.
Freezing Point:	Not available.
Boiling Point:	100 °C (212 °F)

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Flash Point:	> 100 °C (> 212 °F)
Evaporation Rate:	Not available.
Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Specific Gravity:	1.11
Solubility in Water:	Complete.
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	Not available.
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	Not available.

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions.

Conditions of Reactivity: Heat. Incompatible materials.

Incompatible Materials: Alkalis. Metals. Organic materials.

Hazardous Decomposition Products: May include, and are not limited to: oxides of carbon, oxides of nitrogen, oxides of sulfur.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

Ingredient	LD₅₀ (oral)	LC₅₀
Benzenesulfonic acid, C10-16-alkyl derivs.	775 mg/kg, rat	Not available.
Sulfuric acid	2140 mg/kg, rat	160 mg/m ³ 4hr, mouse
Sodium xylenesulphonate	> 7000 mg/kg, rat	Not available.
Citric acid	3000 mg/kg, rat	Not available.
Sulfonic acids, petroleum, sodium salts	Not available.	Not available.
1,2-Ethanediamine, polymer with methyloxirane and oxirane	Not available.	Not available.
Hydrofluoric acid	Not available.	171 ppm 4hr, mouse;
Benzaldehyde	800 mg/kg, rat	1276 ppm 1hr, rat Not available.

Eye: Causes burns. Severe irritation, redness and pain.

Skin: Causes burns. May cause sensitization by skin contact. Redness. Pain. Blisters.

Ingestion: Causes burns. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Inhalation: Very toxic by inhalation. May cause respiratory tract irritation.

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Not available.

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Chronic Effects: Not hazardous by WHMIS criteria.

Carcinogenicity: Not hazardous by WHMIS criteria.

Ingredient

Chemical Listed as Carcinogen or Potential Carcinogen *

Benzenesulfonic acid, C10-16-alkyl derivs.

Not listed.

Sulfuric acid

G-A2, I-1 (mists and vapours)

Sodium xylenesulphonate

Not listed.

Citric acid

Not listed.

Sulfonic acids, petroleum, sodium salts

Not listed.

1,2-Ethanediamine, polymer with methyloxirane and oxirane

Not listed.

Hydrofluoric acid

Not listed.

Benzaldehyde

Not listed.

* See Section 15 for more information.

Mutagenicity: Not hazardous by WHMIS criteria.

Reproductive Effects: Not hazardous by WHMIS criteria.

Developmental Effects:

Teratogenicity: Not hazardous by WHMIS criteria.

Embryotoxicity: Not hazardous by WHMIS criteria.

Respiratory Sensitization: Hazardous by WHMIS criteria.

Skin Sensitization: Hazardous by WHMIS criteria.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: May cause long-term adverse effects in the aquatic environment.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions:

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Section 14: TRANSPORTATION INFORMATION

TDG Classification

UN3264; Corrosive liquid, acidic, inorganic, n.o.s. (Sulfuric acid, Hydrofluoric acid); Class 8, PG II Limited Quantity ($\leq 1L$)

Section 15: REGULATORY INFORMATION

Federal Regulations

Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

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Global Inventories

Ingredient

Benzenesulfonic acid, C10-16-alkyl derivs.
Sulfuric acid
Sodium xylenesulphonate
Citric acid
Sulfonic acids, petroleum, sodium salts
1,2-Ethanediamine, polymer with methyloxirane and oxirane
Hydrofluoric acid
Benzaldehyde

Canada DSL/NDSL

DSL
DSL
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DSL
DSL

HMIS - Hazardous Materials Identification System

Health - 3*

Flammability - 1

Physical Hazard - 0

PPE – B

NFPA - National Fire Protection Association:

Health - 3

Fire - 1

Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

WHMIS Classification(s):

Class D1A - Very Toxic Material
Class D2A - Respiratory Sensitization
Class D2B - Skin Sensitization
Class E - Corrosive Material

WHMIS Hazard Symbols:



SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

ACGIH (G) American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.
A2 - Suspected human carcinogen.
A3 - Animal carcinogen.
A4 - Not classifiable as a human carcinogen.
A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.
2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

1 - Known to be carcinogens.
2 - Reasonably anticipated to be carcinogens.

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Section 16: OTHER INFORMATION

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

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Prepared by: Nexreg Compliance Inc.
Phone: (519) 488-5126
www.nexreg.com