
1. Product and Company Identification

Product Name: Mineraluxe™ Filter Revive
Product Use: Filter Cleaner for Hot Tubs
Supplier: Mineraluxe™ c/o. BACKYARD BRANDS, INC.
401 S. Enterprise Blvd. Lebanon, IN 46052 USA – 1-866-875-0012

24 HR EMERGENCY TELEPHONE NUMBERS
Poison Control Centre (Medical): (877) 800 5553
CANUTEC (Canadian Transportation) : (613) 996 6666
CHEMTREC (US Transportation): 800 424 9300

2. Hazards Identification

ROUTES OF ENTRY: Eye, Skin Contact, Ingestion

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation. Avoid contact with eyes.

SKIN: May cause skin irritation upon repeated/prolonged contact.

INHALATION: May cause slight nose, throat and respiratory tract irritation.

INGESTION: May cause irritation to mouth, esophagus and stomach. May cause gastric upset and/or damage.

CHRONIC EFFECTS

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Sodium Gluconate	527-07-1	1.0-5.0 %
Citric acid	77-92-9	1.0-10.0%
Hydrogen Peroxide	7722-84-1	1.0-5.0 %
Alcohol ethoxylate	68439-46-3	1.0-5.0 %

4. First Aid Measures

Eye Contact: Immediately flush with water for 15 minutes. Holding eyelids open during flushing. If irritation persists, repeat flushing and obtain medical attention immediately.

Skin Contact : Flush with water. Seek medical attention if irritation persists. Remove contaminated clothing and launder before reuse.

Inhalation: Move victim to fresh air. If conscious, have victim take deep, slow breaths. Seek medical attention if symptoms persist.

Ingestion: DO NOT INDUCE VOMITING. Rinse mouth with water, then drink one glass of water. Seek medical attention. Do not give anything to victim if unconscious or convulsing.

5. Fire Fighting Measures

Flammability:	Non flammable
Flash Point deg (C,TCC) :	Not Applicable
Means of Extinction:	As appropriate for surrounding fire. Use water, dry chemical, carbon dioxide or foam
Special Fire Hazards:	Fire fighters should wear self-contained breathing apparatus as for surrounding fire.
Autoignition temperature:	Not applicable.
Flame propagation or burning rate of solid:	Not applicable
Sensitivity to static discharge:	Not applicable
Unusual Fire and Explosion Hazards:	None expected. As per surrounding fire.
Hazardous decomposition products:	Oxides of carbon, oxides of nitrogen.

6. Accidental Release Measures

Leak and Spill Procedures: Before attempting clean-up, refer to the hazard data provided above. Small spills may be absorbed with non-reactive absorbent and placed in a suitable, covered container. For large quantities, dispose of in accordance with local, provincial or federal regulations. For large spills, prevent from entering sewers and waterways. For large spills provide diking to prevent spreading.

7. Handling and Storage

Storage Requirements: KEEP OUT OF REACH OF CHILDREN. Store in a closed container away from incompatible materials which include alkalis, reducing materials, reducing sugars and Ammonia Salt
Storage temperature C Ambient to 45 C (must be stored above 8 C at all times)
Transport temperature C Ambient to 35 C (must be stored above 8 C at all times.)
Keep container closed. Handle and open container with care. Store in a well ventilated place away from incompatible materials. Do not store near open flame.
Do not reuse empty containers.

8. Exposure Controls / Personal Protection

EXPOSURE GUIDELINES:
OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

EXPOSURE LIMITS

	<u>OSHA-TWA</u>		<u>ACGIH-TWA</u>	
	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>
Sodium Gluconate	N/E		N/E	
Citric Acid	15 ppm (PEL) as dust		10 mg/m ³ (TLV)	
Hydrogen Peroxide	1 ppm (PEL)		1 ppm (TWA)	
Alcohol ethoxylate	N/E		N/E	

OSHA TABLE COMMENTS:
1. N/E = Not Established

Gloves: Impervious gloves if sensitive to hydrogen peroxide.
Eye Protection: Not normally required, if eye contact is possible chemical splash goggles are recommended.
Respiratory Protection: Not normally required if good ventilation is maintained
Other Protective Equipment: As required by employer code. Eye bath, safety shower, protective clothing.
Engineering Controls: General ventilation normally required

9. Physical & Chemical Properties

PHYSICAL STATE:	Liquid
ODOUR:	Mild, lime-like
APPEARANCE:	Transparent, clear solution
COLOUR:	Clear
pH:	2.25 – 2.75
BOILING POINT:	100° C
% VOLATILE (wt.%):	>80%
SPECIFIC GRAVITY:	1.0 (water=1): 1.00-1.02
SOLUBILITY IN WATER:	Complete
VISCOSITY:	Water-like
EVAPORATION RATE (water=1):	Similar

10. Chemical Stability & Reactivity Information

Conditions for Chemical Instability:	Stable under normal conditions.
Incompatible Materials:	Reducing agents, strong acids, strong caustics, oxidizing agents.
Hazardous Decomposition Products:	Oxides of carbon, Oxides of Nitrogen when heated.

11. Toxicological Information

Ingredients	LD ₅₀
Sodium Gluconate	Not available
Citric acid	3,000 mg/kg (oral/ral)
Hydrogen Peroxide	>225 mg/kg (oral/rat), based on 50 % hydrogen peroxide
Alcohol ethoxylate	>2,000 mg/kg (oral/rat)

Carcinogenicity: Skin Sensitization (OECD Sec. 406) Non sensitizing.

Teratogenicity, Mutagenicity, Reproductive Effects: No ingredients listed IARC or NTP or ACGIC. Non hazardous by WHIMIS/OSHA criteria.
Skin: The ingredients in this product were found not to be mutagenic when tested by the Ames Assay, (OECD Guidelines for chemical testing, sec.471)
Repeated or prolonged exposures to dilutions can cause drying, defatting and dermatitis. Whitening of skin may occur in some instances, this is a temporary effect and normal skin colour will revert in a few minutes.

12. Ecological Information

Biodegradability: Surfactants are biodegradable as per Ready Biodegradability Closed bottle test (OECD 301 D, also known as the US EPA as OPPTS 835.3100 (Fate, Transport and Transformation Test Guidelines.) Hydrogen peroxide will decompose to oxygen and water only. Citric acid and Sodium Gluconate are both readily biodegradable under OECD 301-D.

Ecotoxicity Alcohol ethoxylate
96 hour LC0> 1,000 mg/L (rainbow trout) 48 hour LC50 > 1,000 ml/L (ceriodaphnia dubia),
Ecotoxicity Hydrogen peroxide
Fathead minnow 96 hour LC50=16.4 mg/L
Daphnia magna 24 hour EC50=7.7 mg/L
Freshwater snail 96 hour LC50=17.7 mg/L

13. Disposal Considerations

Dispose of in accordance to all local, provincial/state and federal regulations.

14. Transport Information

DOT (DEPARTMENT OF TRANSPORTATION) Classification: Not regulated
CANADA TRANSPORT OF DANGEROUS GOODS Classification: Not regulated

15. Regulatory Information

Occupational Health and Safety

Regulations:

WHMIS Class:

Class D Division 2B

OSHA & WHMIS:

MSDS prepared pursuant to the Hazard Communication Standard (CFR29.1920.1200) and Canadian WHMIS regulations

Environmental Regulatory Lists:

SARA – Section 313 (Toxic Chemical Release Reporting) 40 CFR 372

None of these ingredients are listed

CERCLA – Section 102 (Reportable Quantity) 40 CFR 302

None of these ingredients are listed

RCRA 40 CFR 261 (Subpart D)

None of these ingredients are listed

CLEAN WATER ACT – Section 311 (Reportable Qty) 40 CFR 116:

None of these ingredients are listed

CLEAN AIR ACT – Section 312 (List of Hazardous Pollutants) 40 CFR 63 (Subpart C)

None of these ingredients are listed

National Pollutant Release Inventory Toxic Substances Control Act (TSCA)

None of these ingredients are listed
All ingredients are registered on the Chemical Substances Inventory.

Canadian Domestic Substance List (DSL):

All ingredients are registered on the DSL

16. Other Information

COMMENTS: The contents and format of this MSDS are in accordance with OSHA Hazard Communication Standard, National Fire Protection Association (NFPA), Hazardous Materials Identification System (HMIS), and Canada's Workplace Hazardous Information System (WHMIS) and Environmental Protection Agency (CEPA).

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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