

1. PRODUCT & COMPANY IDENTIFICATION

1.1	Product Name:	ACTIVE® HOT TUB & SPA FILTER CLEANER
1.2	Chemical Name:	NA
1.3	Synonyms:	NA
1.4	Trade Names:	Active® Hot Tub & Spa Filter Cleaner
1.5	Product Use:	Hot Tub & Spa Filter Cleaner
1.6	Distributor's Name:	Active B, LLC
1.7	Distributor's Address:	3147 California Street, NE, Suite 100-A, Minneapolis, MN 55418 USA
1.8	Emergency Phone:	INFOTRAC +1 (800) 535-5053 / +1 (352-323-3500)
1.9	Business Phone / Fax:	Tel: +1 (888) 997-2131)

2. HAZARDS IDENTIFICATION

2.1	Hazard Identification:	Prepared in accordance with UN Globally Harmonized standards. Intended to comply with OSHA 29 CFR 1910.1200. Canadian WHMIS and Australian Work Health and Safety standards. DANGER! HARMFUL IF SWALLOWED. HARMFUL IF INHALED. CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE DAMAGE. Classification: Acute Tox. (oral) 4, Acute Tox. (inh) 4, Skin Irrit. 2, Eye Dam. 1
2.2	Label Elements:	<p>Hazard Statements (H): H302 – Harmful if swallowed. H315 – Causes skin irritation. H318 – Causes serious eye irritation. H332 – Harmful if inhaled.</p> <p>Precautionary Statements (P): P261 – Avoid breathing fume/mist/vapors/spray. P264+P265 – Wash thoroughly after handling. Do NOT touch eyes. P270 – Do not eat, drink or smoke when using this product. P271 – Use only outdoors or in a well-ventilated area. P280 – Wear eye/face protection/protective gloves. P301+P317 – IF SWALLOWED: Get medical help. P330 – Rinse mouth. P302+P352 – IF ON SKIN: wash with plenty of water and soap. P304+P2340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P317 – Get medical help. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 – Specific treatment: see section 4 of the Safety Data Sheet. P332+P317 – If skin irritation occurs: Get medical help. P337+P317 – IF eye irritation persists: Get medical help. P362+P364 – Take off contaminated clothing and wash it before reuse. P501 – Dispose of contents/container to a licensed treatment, storage, or disposal facility (TSDF).</p>
2.3	Other Warnings:	KEEP OUT OF REACH OF CHILDREN.



3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)									OTHER
					ACGIH		NOHSC			OSHA				
					ppm		ppm			ppm				
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH		
PROPRIETARY BLEND	NA	NA	NA	80-90	NA	NA	NF	NF	NF	NA	NA	NA		
	Acute Tox. (oral) 4, Acute Tox. (inh) 4, Skin Irrit. 2, Eye Irrit. 2A; H302, H316, H319, H													
GLYCOLIC ACID	79-14-1	NA	201-180-5	5-15	NA	NA	NF	NF	NF	NA	NA	NA		
	Skin Corr. 1B, Eye Dam. 1, Acute Tox. (oral) 4; H314, H318, H332; EUH071, EUH208													
ALCOHOLS, C8-12, ETHOXYLATED, PROPYLATED	68603-25-8	NA	614-633-0	1-5	NA	NA	NF	NF	NF	NA	NA	NA		
PROPRIETARY ACID STABILIZER	NA	NA	NA	≤ 1	NA	NA	NF	NF	NF	NA	NA	NA		

4. FIRST AID MEASURES

4.1	First Aid:	<p>Ingestion: DO NOT INDUCE VOMITING. Contact the nearest Poison Control Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.</p> <p>Eyes: If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If irritation persists, seek medical attention.</p> <p>Skin: Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned.</p> <p>Inhalation: Remove victim to fresh air at once.</p>
4.2	Effects of Exposure:	<p>Ingestion: If product is swallowed, may cause nausea, intestinal discomfort, vomiting and/or diarrhea.</p> <p>Eyes: Symptoms of overexposure may include redness, itching, irritation, and watering.</p> <p>Skin: May be irritating to skin in some sensitive individuals.</p> <p>Inhalation: None expected.</p>
4.3	Symptoms of Overexposure:	Symptoms of overexposure may include redness, itching, irritation and watering. In some sensitive individuals, symptoms of skin overexposure may include redness, itching, and irritation of affected areas.
4.4	Acute Health Effects:	Moderate irritation to eyes. Moderate irritation to skin near affected areas and with some sensitive individuals.

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & EU Standards SDS Revision: 1.0 SDS Revision Date: 7/20/2024

4. FIRST AID MEASURES – cont'd

4.5	Chronic Health Effects:	No harmful or chronic health effects are expected to occur from a single accidental ingestion. Components of this product contained in very small, may be mild allergens to some sensitive individuals.															
4.6	Target Organs:	Eyes, Skin															
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, and disorders of the target organs (eyes).															
		<table border="1"> <tr> <td colspan="2">HEALTH</td> <td>2</td> </tr> <tr> <td colspan="2">FLAMMABILITY</td> <td>0</td> </tr> <tr> <td colspan="2">PHYSICAL HAZARDS</td> <td>0</td> </tr> <tr> <td colspan="2">PROTECTIVE EQUIPMENT</td> <td>B</td> </tr> <tr> <td>EYES</td> <td>SKIN</td> <td></td> </tr> </table>	HEALTH		2	FLAMMABILITY		0	PHYSICAL HAZARDS		0	PROTECTIVE EQUIPMENT		B	EYES	SKIN	
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FLAMMABILITY		0															
PHYSICAL HAZARDS		0															
PROTECTIVE EQUIPMENT		B															
EYES	SKIN																

5. FIREFIGHTING MEASURES

5.1	Fire & Explosion Hazards:	If involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO, CO ₂ , NO _x).	
5.2	Extinguishing Methods:	Water, Foam, CO ₂ , Dry Chemical	
5.3	Firefighting Procedures:	First responders should wear eye protection. Structural fire fighters must wear full protective equipment and MSHA/NIOSH-approved self-contained breathing apparatus. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas. If necessary, rinse contaminated equipment with soapy water before returning to service.	

6. ACCIDENTAL RELEASE MEASURES

6.1	Spills:	<p>Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment (PPE).</p> <p>For small spills (e.g., < 1 gallon (3.8 L)) or large spills (e.g., ≥ 1 gallon (3.8 L)), wear appropriate personal protective equipment (e.g., goggles, gloves). Remove spilled material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state, and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse.</p>
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7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices:	Do not eat, drink, or smoke while handling this product.
7.2	Storage & Handling:	Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans). Keep away from excessive heat and open flames.
7.3	Special Precautions:	Spilled material may present a slipping hazard if left unattended. Clean all spills promptly.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Exposure Limits: ppm (mg/m ³)		ACGIH		NOHSC		OSHA			OTHER
		CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH
8.2	Ventilation & Engineering Controls:	When working with large quantities of product, provide adequate ventilation (e.g., local exhaust ventilation, fans). Ensure that an eyewash station, sink, or washbasin is available in case of exposure to eyes. When using do not smoke or use chewing tobacco. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.								
8.3	Respiratory Protection:	No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia.								
8.4	Eye Protection:	Safety glasses with side shields must be used when handling or using this product. A protective face shield is also recommended.								
8.5	Hand Protection:	Wear protective, chemical-resistant gloves (e.g., neoprene, nitrile, butyl rubber) when using or handling this product.								
8.6	Body Protection:	A chemical resistant apron and/or protective clothing are recommended when handling or using this product.								

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9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Appearance:	Light amber liquid
9.2	Odor:	Characteristic, sharp acidic
9.3	Odor Threshold:	NA
9.4	pH:	1.5-3.0
9.5	Melting Point/Freezing Point:	26 °F (-3.3 °C)
9.6	Initial Boiling Point/Boiling Range:	>212°F (>100°C)
9.7	Flashpoint:	NA
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	NA
9.11	Relative Density:	1.14
9.12	Solubility:	Soluble
9.13	Partition Coefficient (log P _{ow}):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	NA
9.17	Other Information:	NA

10. STABILITY & REACTIVITY

10.1	Stability:	This product is stable.
10.2	Hazardous Decomposition Products:	Oxides of carbon (e.g., CO, CO ₂)
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Open flames, sparks, high heat and direct sunlight.
10.5	Incompatible Substances:	None known or reported.

11. TOXICOLOGICAL INFORMATION

11.1	Routes of Entry:	Inhalation: YES	Absorption: YES	Ingestion: YES
11.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product, but are not presented in this document. ATE (mixture): LD ₅₀ (oral, rat): > 120 mg/kg; LD ₅₀ (dermal, rabbit): > 5,000 mg/kg; LC ₅₀ (rat, inh): 23-34 mg/L.		
11.3	Acute Toxicity:	See Section 4.4		
11.4	Chronic Toxicity:	See Section 4.5		
11.5	Suspected Carcinogen:	This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to www.P65Warnings.ca.gov .		
11.6	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans.		
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.		
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.		
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.		
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.		
11.7	Irritancy of Product:	See Section 4.2		
11.8	Biological Exposure Indices:	NE		
11.9	Physician Recommendations:	Treat symptomatically.		

12. ECOLOGICAL INFORMATION

12.1	Environmental Stability:	There are no specific data available. <u>Glycolic Acid</u> is considered readily biodegradable. Components are highly water-soluble and not expected to accumulate in dynamic biological systems. Chemicals of these classes are expected to exhibit high mobility in saturated and semi-saturated soils.
12.2	Effects on Plants & Animals:	There are no specific data available.
12.3	Effects on Aquatic Life:	EC ₅₀ (Daphnia magna, 48h): 295 mg/L; LD ₅₀ (Fathead minnow, 96h): 410 mg/L. WGK: 2 (hazardous to water)

13. DISPOSAL CONSIDERATIONS

13.1	Waste Disposal:	Waste disposal must be in accordance with appropriate Federal, state, and local regulations.
13.2	Special Considerations:	U.S. EPA Hazardous Waste: Characteristic – Corrosivity (D002)

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14. TRANSPORTATION INFORMATION

The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.

14.1	49 CFR (GND):	UN1760, CORROSIVE LIQUIDS, N.O.S. (glycolic acid), 8, III (LTD QTY, IPVOL ≤ 5.0 L)	
14.2	IATA (AIR):	UN1760, CORROSIVE LIQUIDS, N.O.S. (glycolic acid), 8, III (LTD QTY, IPVOL ≤ 0.5 L, OPVOL ≤ 1.0 L)	
14.3	IMDG (OCN):	UN1760, CORROSIVE LIQUIDS, N.O.S. (glycolic acid), 8, III (LTD QTY, IPVOL ≤ 5.0 L)	
14.4	TDGR (Canadian GND):	UN1760, CORROSIVE LIQUIDS, N.O.S. (glycolic acid), 8, III (LTD QTY, IPVOL ≤ 5.0 L)	
14.5	ADR/RID (EU):	UN1760, CORROSIVE LIQUIDS, N.O.S. (glycolic acid), 8, III (LTD QTY, IPVOL ≤ 5.0 L)	
14.6	SCT (MEXICO):	UN1760, CORROSIVE LIQUIDS, N.O.S. (glycolic acid), 8, III (LTD QTY, IPVOL ≤ 5.0 L)	
14.7	ADGR (AUS):	UN1760, CORROSIVE LIQUIDS, N.O.S. (glycolic acid), 8, III (LTD QTY, IPVOL ≤ 5.0 L)	

15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements:	This product contains <u>Formic Acid</u> , <u>Hydrochloric Acid</u> and <u>Sulfuric Acid</u> , substances subject to SARA Title III, section 313 reporting requirements.
15.2	SARA TPQ:	There are no specific Threshold Planning Quantities for the components of this product.
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.
15.4	CERCLA RQ:	<u>Hydrochloric Acid</u> : 5,000 lbs (2,270 kg); <u>Sulfuric Acid</u> : 100 lbs (45.4 kg)
15.5	Other Federal Requirements:	This material does not contain any hazardous air pollutants. None of the components in this product are listed as priority pollutants under the CWA. None of the components in this product are listed as toxic pollutants under the CWA.
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the HPR and the SDS contains all the information required by the HPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List.
15.7	State Regulatory Information:	No hazardous ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).
15.8	Other Requirements:	This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to www.P65Warnings.ca.gov .

16. OTHER INFORMATION

16.1	Other Information:	<p>DANGER! HARMFUL IF SWALLOWED. CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE DAMAGE. HARMFUL IF INHALED.</p> <p>Avoid breathing fume/mist/vapors/spray. Wash thoroughly after handling. Do NOT touch eyes. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear eye/face protection. IF SWALLOWED: Get medical help. Rinse mouth. IF ON SKIN: wash with plenty of water and soap. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment: see section 4 of the Safety Data Sheet. If skin irritation occurs: Get medical help. IF eye irritation persists: Get medical help. Take off contaminated clothing and wash it before reuse.</p> <p>KEEP OUT OF REACH OF CHILDREN.</p>	
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Active B, LLC's knowledge the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. ShipMate, Inc., and Active B, LLC are not liable for any claims, losses, or damages of any third party, special, indirect, incidental, consequential, or exemplary damages from reliance on the information in this document. Be sure to consult the latest edition.	
16.4	Prepared for:	Active B, LLC 3147 California Street, NE, Suite 100-A Minneapolis, MN 55418 USA Tel: +1 (888) 997-2131 https://useactive.com	
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	



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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number
RTECS No.	Registry of Toxic Effects of Chemical Substances Number
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
IDLH	Immediately Dangerous to Life and Health
NOHSC	National Occupational Health and Safety Commission (Australia)
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.
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HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard

HEALTH
FLAMMABILITY
PHYSICAL HAZARDS
PERSONAL PROTECTION

PERSONAL PROTECTION RATINGS:

A		G	
B		H	
C		I	
D		J	
E		K	
F		X	Consult your supervisor or SOPs for special handling directions.

Safety Glasses	Splash Goggles	Face Shield & Protective Eyewear	Gloves
Boots	Protective Apron	Protective Clothing & Full Suit	Dust Respirator
Full Face Respirator	Dust & Vapor Half-Mask Respirator	Full Face Respirator	Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

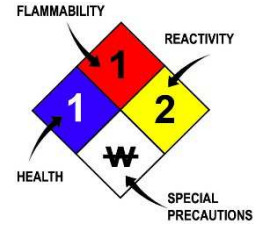
Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:	
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source

HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
W	Use No Water
OX	Oxidizer
TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD ₁₀	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD ₁₀ , LD ₁₀ , & LD ₀₁ or TC, TC ₀₁ , LC ₁₀ , & LC ₀₁	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL _m	Median threshold limit
log K _{ow} or log K _{oc}	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
TC	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NDSL	Canadian Non-Domestic Substance List
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU	European Union (European Union Directive 67/548/EEC)
WGK	Wassergefährdungsklassen (German Water Hazard Class)

CLP/GHS (1272/2008/EC) PICTOGRAMS:

GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment