SAFETY DATA SHEET SPA FROG® Conditioning Cartridge

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 1: Identification of t	he substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product name	SPA FROG® Conditioning Cartridge	
1.2. Relevant identified uses of	of the substance or mixture and uses advised against	
Identified uses	Spa and hot tub conditioner	
Uses advised against	Use only for intended applications.	
1.3. Details of the supplier of t	he safety data sheet	
Manufacturer	King Technology, Inc. 6000 Clearwater Dr. Minnetonka, MN 55343 United States 1+ (952) 933-6118 sdsinfo@kingtechnology.com	
1.4. Emergency telephone nu	mber	
Emergency telephone	1+ (800) 424-9300 - Chemtrec (24 hours)	
SECTION 2: Hazards identification		
2.1. Classification of the subst		
Classification (EC 1272/2008)		
Physical hazards	Met. Corr. 1 - H290	
Health hazards	Eye Dam. 1 - H318	
Environmental hazards	Not Classified	
2.2. Label elements Pictogram		
Signal word	Danger	
Hazard statements	H318 Causes serious eye damage. H290 May be corrosive to metals.	
Precautionary statements	 P234 Keep only in original packaging. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/ doctor. P390 Absorb spillage to prevent material damage. P406 Store in a corrosion-resistant container with a resistant inner liner. 	

SECTION 3: Composition/information on ingredients

3.2. Mixtures

	> 10.8%
EC number: 233-135-0	
	EC number: 233-135-0

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16. **SECTION 4: First aid measures** 4.1. Description of first aid measures **General information** Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel. Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist. Ingestion Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel. Skin contact Rinse with water. Eye contact Rinse immediately with plenty of water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue. 4.2. Most important symptoms and effects, both acute and delayed **General information** The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Inhalation No specific symptoms known. Ingestion No specific symptoms known. Skin contact Prolonged contact may cause dryness of the skin. Eye contact Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness. 4.3. Indication of any immediate medical attention and special treatment needed Notes for the doctor Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire. media 5.2. Special hazards arising from the substance or mixture Specific hazards None known. Hazardous combustion Thermal decomposition or combustion products may include the following substances: products Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

 Personal precautions
 Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.	
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage precautions	Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Store in corrosive resistant container with a resistant inner liner.	
Storage class	Chemical storage.	
7.3. Specific end use(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.	
SECTION 8: Exposure contro	Is/Personal protection	

8.1. Control parameters

Occupational exposure limits

US ACGIH. CAS 10043-01-3. Threshold limit value (TLV-TWA): 1 mg/m3 Canada (Alberta). CAS 10043-01-3. Time-weighted average (TWA): 2 mg/m3 UK. CAS 10043-01-3. Time-weighted average (TWA): 2 mg/m3 Denmark. CAS 10043-01-3. Time-weighted average (TWA): 1 mg/m3 France. CAS 10043-01-3. Time-weighted average (VME): 2 mg/m3 Ireland. CAS 10043-01-3. Time-weighted average (TWA): 2 mg/m3 Italy. CAS 10043-01-3. Time-weighted average (TWA): 1 mg/m3 Norway. CAS 10043-01-3. Time-weighted average (TWA): 2 mg/m3 Portugal. CAS 10043-01-3. Time-weighted average (TWA): 1 mg/m3 Sweden. CAS 10043-01-3. Time-weighted average (TWA): 1 mg/m3

ACGIH = American Conference of Governmental Industrial Hygienists

Time-weighted average (TWA) = 8-hour exposure limit

8.2. Exposure controls

Protective equipment



Appropriate engineering controls	Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full- face respirator may be required instead.
Hand protection	No specific hand protection recommended.
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.
Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

	9.1. Information on basic physical and chemical properties
--	--

Appearance	Solid powder with small granules throughout.
Colour	White.
Odour	Odourless.
Odour threshold	No information available.

рН	No information available.
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	No information available.
Bulk density	No information available.
Solubility(ies)	No information available.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	No information available.

SECTION 10: Stability and re	eactivity
10.1. Reactivity	
Reactivity	May be corrosive to metals.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
10.3. Possibility of hazardous	s reactions
Possibility of hazardous reactions	No potentially hazardous reactions known.
10.4. Conditions to avoid	
Conditions to avoid	Keep away from heat, sparks and open flame.
10.5. Incompatible materials	
Materials to avoid	Mild steel. Stainless steel. Aluminium. May be corrosive to metals.
10.6. Hazardous decomposit	ion products
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.
SECTION 11: Toxicological in	nformation
11.1. Information on toxicolog	gical effects

Acute toxicity - oral

Notes (oral LD₅₀)	Based on available data the classification criteria are not met.
<u>Acute toxicity - dermal</u> Notes (dermal LD₅)	Based on available data the classification criteria are not met.
Acute toxicity - inhalation	
Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.
Skin corrosion/irritation	
Animal data	Based on available data the classification criteria are not met.
Serious eye damage/irritation	
Serious eye damage/irritation	Eye Dam. 1 - H318 Causes serious eye damage.
Respiratory sensitisation	Read on available data the classification criteria are not mot
Respiratory sensitisation	Based on available data the classification criteria are not met.
Skin sensitisation Skin sensitisation	Based on available data the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Carcinogenicity	
Carcinogenicity	Based on available data the classification criteria are not met.
Reproductive toxicity	
Reproductive toxicity - fertility	
Reproductive toxicity - development	Based on available data the classification criteria are not met.
Specific target organ toxicity -	single exposure
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity -	repeated exposure
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard	
Aspiration hazard	Not relevant. Solid.
General information	The severity of the symptoms described will vary dependent on the concentration and the
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
General information	
	length of exposure.
Inhalation	length of exposure. No specific symptoms known.
Inhalation Ingestion	 length of exposure. No specific symptoms known. No specific symptoms known. Prolonged contact may cause dryness of the skin. Causes serious eye damage. Symptoms following overexposure may include the following:
Inhalation Ingestion Skin contact Eye contact	length of exposure. No specific symptoms known. No specific symptoms known. Prolonged contact may cause dryness of the skin. Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.
Inhalation Ingestion Skin contact	 length of exposure. No specific symptoms known. No specific symptoms known. Prolonged contact may cause dryness of the skin. Causes serious eye damage. Symptoms following overexposure may include the following:

SECTION 12: Ecological information

Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
12.1. Toxicity	
Toxicity	Based on available data the classification criteria are not met.
12.2. Persistence and degrada	bility
Persistence and degradability	The degradability of the product is not known.
12.3. Bioaccumulative potentia	<u>I</u>
Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	No information available.
12.4. Mobility in soil	
Mobility	No data available.
12.5. Results of PBT and vPvE	assessment
No PBT and vPvB assessment	
12.6. Other adverse effects	
Other adverse effects	None known.
SECTION 13: Disposal conside	erations
13.1. Waste treatment method	S
General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods	Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.
SECTION 14: Transport inform	nation
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

SECTION 15: Regulatory information

National regulations	Health and Safety at Work etc. Act 1974 (as amended).
Ū	The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment
	Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
	EH40/2005 Workplace exposure limits.
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18
	December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
	Commission Regulation (EU) No 2015/830 of 28 May 2015.
	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16
	December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

EINECS All the ingredients are listed or exempt. ELINCS None of the ingredients are listed or exempt.

Canada - DSL/NDSL

DSL All the ingredients are listed or exempt. NDSL None of the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

SECTION 16: Other information	
Revision date	2022-10-24
SDS number	4786
Hazard statements in full	H290 May be corrosive to metals. H318 Causes serious eye damage.

The information provided on the SDS is correct to the best of our knowledge, information, and belief at the date of this publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release, and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.