

SAFETY DATA SHEET

1. Product & Company Identification

Product Name Mineraluxe™ Advance Sticks

Product use Cleaning agent for hot tubs.

Supplier Mineraluxe c/o Backyard Brands, Inc.
BACKYARD BRANDS, INC
401 S. Enterprise Blvd.
Lebanon, IN 46052 USA
Phone: 1-866-875-0012

24 HR. EMERGENCY TELEPHONE NUMBERS

Poison Control Center (Medical): (877) 800 - 5553

CANUTEC (Canadian Transportation): (613) 996 - 6666

CHEMTREC (US Transportation): (800) 424 - 9300

2. Hazards Identification

EMERGENCY OVERVIEW

Immediate Concerns:	Corrosive to metals.. Skin corrosive. Can cause erious eye damage.
Human Health Hazards:	Specific target organ toxicity after single exposure.
Physical/chemical Hazards:	Causes severe skin burns and eye damage. May cause respiratory irritation.
Environmental Hazards:	Reacts vigorously in contact with acids. Strong heat development possible. May be corrosive to metals.
	Not classified as dangerous..

LABEL ELEMENTS:

Hazard pictograms:



Signal word : Danger

H- and P-phrases	:	H290	May be corrosive to metals.
		H314	Causes severe skin burns and eye damage.
		H335	May cause respiratory irritation.
		P101	If medical advice is needed, have product container or label at hand.
		P102	Keep out of reach of children.
		P260 dust	Do not breathe dust.
		P271	Use only outdoors or in a well-ventilated area.
		P280	Wear protective gloves/protective clothing/eye protection/face protection
		P301 + P330+	IF SWALLOWED: rinse mouth. DO NOT INDUCE vomiting.

P331	
P303 + P361+	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+ P351+	IF IN EYES: Rinse cautiously with water for several minutes.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE/Doctor.
P363	Wash contaminated clothing before reuse.
P403 + P233	Store in a well ventilated place. Keep container tightly closed.
P405	Store locked up.
P234	Keep only in original container.
P390	Absorb spillage to prevent material damage.
P501	Dispose of contents/container to an official chemist waste depot.

Hazard pictograms:



3. Composition/Information on Ingredients

MIXTURES

Product description: Mixture

Information on Hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.
Sodium carbonate	25 - < 50	497-19-8
Disodium metasilicate	20 - < 25	6834-92-0
Aluminium potassium bis(sulphate) dodecahydrate	10 - < 20	7784-24-9
Substance name	Hazard Class	Pictograms
Sodium carbonate	Eye Irrit. 2	GHS07
Disodium metasilicate	Met. Corr. 1; Eye Dam. 1; Skin Corr. 1B; STOT SE 3	GHS05; GHS07
Aluminium potassium bis(sulphate) dodecahydrate	-----	-----

4. First AID Measures

First aid measures

Inhalation : Move victim into fresh air. Consult a doctor.

Skin contact : Immediately take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor in case burns or irritation occur.

Eye contact	: Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Transport to a hospital immediately.
Ingestion	: Do not induce vomiting. Rinse the mouth, give 1 glass of water at most. Do not give milk. Never give anything by mouth to an unconscious person. Transport to a hospital immediately.

Most important symptoms and effects, both acute and delayed

Effects and symptoms

Inhalation	: Corrosive. May cause sore throat and coughing. May cause shortness of breath or lack of breath.
Skin contact	: Corrosive. May cause redness, pain and severe burns (blisters).
Eye contact	: Corrosive. May cause redness and severe pain. Tears.
Ingestion	: Corrosive. May cause burning pain in throat and mouth. May cause a feeling of sickness, stomach vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed

Note to physicians : None known.

5. Fire Fighting Measures

Extinguishing media: Carbondioxide (CO2). Foam. Dry chemical. Water fog.

Special hazards arising from the substance or mixture

Special exposure hazards: None known.
 Hazardous thermal: Carbon monoxide may be evolved if incomplete combustion occurs. Decomposition products.

Advice for Firefighters:

Special protective equipment: Use adequate respiratory equipment in case of insufficient

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Do not breathe dust.

Environmental precautions

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water.
 Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Carefully neutralize residues with acid. Dispose at an authorized waste collection point. Wash away remainder with plenty of water and soap.

7. Handling & Storage

Precautions for safe handling

Handling: Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Avoid contact with skin and eyes. Wear protective clothing. After contact with skin, wash immediately with plenty of water.

Conditions for safe storage, including any incompatibilities

Storage: Keep in a cool, dry and well-ventilated place (< 35 °C). Recommended packaging : Keep only in the original container.

Specific end use(s)

Use: Use only as directed. Do not mix with other products

8. Exposure Controls/Personal Protection

ENGINEERING MEASURES: Comply with standard precautionary measures for working with chemicals.

HYGIENIC MEASURES: When using this product, do not eat, drink or smoke.

OCCUPATIONAL

EXPOSURE LIMITS: Occupational exposure limits have not been established for this product.

PERSONAL PROTECTIVE

EQUIPMENT: The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

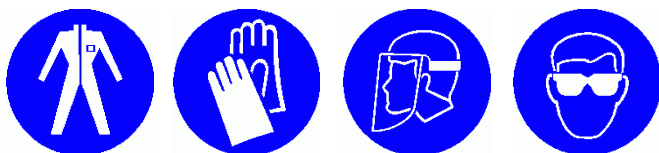
BODY PROTECTION: Wear appropriate protective clothing, overalls or suit and similar boots. Suitable material: PVC. Indication of permeation breakthrough time: not known.

RESPIRATORY: Avoid inhaling vapors or dust. In case of insufficient ventilation, wear an approved NIOSH respirator.

HAND PROTECTION: Wear appropriate safety gloves when handling this product. Suitable material: PVC ± 0.5 mm. Indication of permeation breakthrough time: Not known.

EYES PROTECTION: Wear appropriate safety glasses with side shields.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with



9. Physical & Chemical Properties

Information on basic physical and chemical properties:

Appearance:	Solid	
Colour:	White	
Odour:	Characteristic	
Odour threshold:	Not applicable	
pH:	12,5	10% solution
Alkali reserve (g NaOH/100 ml):	20,08	
Solubility in water:	Soluble	
Partition coefficient (n-octanol water):	Not known	
Flash Point:	Not relevant	Solid
Flammability (solid, gas)	Not flammable	
Auto ignition temperature:	Not known.	
Boiling Point/boiling range:	> 100 ° C	
Melting Point/melting range:	> 30 ° C	
Explosive Properties:	Not known	Does not contain explosives.
Explosion limits (% in air):	Not applicable.	
Oxidizing Properties:	Not applicable.	Does not contain oxidizing substances.
Decomposition temperature:	Not applicable.	
Viscosity (20° C):	Not applicable	Solid
Vapour Pressure (20° C):	Very low	Solid
Vapour density (20° C):	Not relevant	The solvent content of this product is less than 1%.
Relative density (20° C):	1 g/ml	
Evaporation Rate:	Very low	Solid

10. Chemical Stability & Reactivity Information

Chemical stability

Stability : Stable under normal conditions.

Possibility of hazardous reactions

Reactivity : Reacts vigorously in contact with acids. Strong heat development possible. Reacts with metals.

Conditions to avoid

Conditions to avoid : See section 7.

Incompatible materials

Materials to avoid : Keep away from acids.

Hazardous decomposition products

Hazardous decomposition:
Products Not known

11. Toxicological Information

Information on toxicological effects:

No toxicological research has been carried out on this product.

Inhalation:

Acute toxicity: Calculated LC50: 7,207 mg/l. Ingredients of unknown toxicity: 26 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause damage to organs. Target organ(s): Respiratory system. Effect(s): May cause irritation to respiratory airways and coughing.

Corrosive/Irritation: May cause sore throat and coughing. May cause pulmonary oedema. Symptoms of pulmonary oedema often manifest after several hours. May cause irritation to respiratory airways and coughing.

Sensitization: Does not contain substances classified as respiratory sensitizer. Not classified –based on available data, the classification criteria are not met.

Carcinogenicity: Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.

Mutagenicity: Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin Contact:

Acute toxicity:	Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
Corrosion/irritation:	Corrosive. Causes severe burns.
Sensitization:	Does not contain skin sensitizers. Not classified - based on available data, the classification criteria are not met.
Mutagenicity:	Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye Contact

Corrosion/irritation:	Corrosive. Risk of serious damage to eyes.
Ingestion	
Acute toxicity:	Calculated LD50: > 1737 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Not classified - based on available data, the classification criteria are not met.
Aspiration:	Not classified - based on available data, the classification criteria are not met. Does not contain substances with an aspiration hazard.
Corrosion/irritation:	Corrosive. May cause burning pain in throat and mouth. May cause a feeling of sickness, stomachache, vomiting and diarrhea.
Carcinogenicity:	Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
Mutagenicity:	Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.
Reprotoxicity:	Development: Not expected to be reprotoxic. Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological Information:

Chemical name	Property		Method	Test animal
Disodium metasilicate	LD50 (oral)	662 mg/kg bw	-----	Mouse
	LD50 (oral) - estimate	> 2000 mg/kg bw	-----	-----
	LC50 (inhalation) - estimate	> 5000 mg/m3	-----	-----
	NOAEL (oral)	127 mg/kg bw/d	-----	Rat
	LD50 (dermal) - estimate	> 5000 mg/kg bw	-----	Rat
	Skin sensitisation	Not sensitizing	OECD 429	Mouse
	Genotoxicity - in vivo	Not genotoxic	OECD 475	Mouse
	Genotoxicity - in vitro	Not genotoxic	OECD 473	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Skin irritation	Corrosive.	OECD 404	Rabbit
	Eye irritation - estimate	Corrosive.		Rabbit

12. Ecological Information

Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Calculated LC50 (fish): 209 mg/l. Calculated EC50 (waterflea): 477 mg/l.
Contains 0 % of components with unknown hazards to the aquatic environment.
Not classified - based on available data, the classification criteria are not met.

Persistence and degradability

Persistence – degradability : No specific information known.

Bioaccumulative potential

Bioaccumulative potential : No specific information known.

Mobility in soil

Mobility : If product enters soil, it will be highly mobile and may contaminate groundwater.

Other adverse effects

Other information : Not applicable.

13. Disposal Considerations

DISPOSAL METHOD: Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Containers may be recycled. Treat product residues and non-empty pack as hazardous waste.

PRODUCT DISPOSAL: Dispose of unused, uncontaminated product in accordance with all municipal, provincial or federal regulations.

14. Transport Information

DEPARTMENT OF TRANSPORTATION (DOT)

Proper Shipping Name: DISODIUM TRIOXOSILICATE MIXTURE
Primary Hazard Class/Division: 8 (Corrosive)
UN/NA Number: 3253
Packaging Group: III

CANADA TRANSPORTATION OF DANGEROUS GOODS (TDG)

Proper Shipping Name: DISODIUM TRIOXOSILICATE MIXTURE

Primary Hazard Class/Division: 8 (Corrosive)

UN/NA Number: 3253

Packaging Group: III



15. Regulatory Information

CANADA

WHMIS CLASS: E–Corrosive

DOMESTIC SUBSTANCE LIST (INVENTORY): Product ingredients are listed on DSL.

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

16. Other Information

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.

Issue date February 26, 2019

Effective date February 26, 2019

Expiry date February 26, 2022

Prepared by Backyard Brands, 1-866-875-0012