



AXEON® Water Technologies Safety Data Sheet

Product Specification Number:	MKTf – 455	Rev.	A
Product Description:	S – 200C Membrane Antiscalant		

IDENTITY (As Used on Label and List)

S – 200C SILICA CONCENTRATE
Pretreatment / Antiscalant

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section 1 - Identification

Manufacturer's Name	Emergency Telephone Number	Emergency Telephone Number International
AXEON® Water Technologies	1-800-424-9300 (Chemtrec)	001-703-527-3887 (Chemtrec)
Address (Number, Street, City, State and ZIP Code) 40980 County Center Drive, Suite 101 Temecula, California 92591	Telephone Number for Information (858) 693-4062	
	Date Prepared April 21, 2017	
Signature of Preparer (Optional)		

Section 2 - Hazard(s) identification

Other Limits

Hazardous Components (Specific Chemical Identity: Common Name(s)) OSHA PELACGIH TLV Recommended % (optional)

Complying with 29 CFR 1910.1200 (d), each ingredient in this formulation has been reviewed with the "Guide to Occupational Exposure Values - 2012" published by ACGIH. None of the following ingredients have listed occupational exposure values, and can be considered generally safe if handled with due care:

Phosphonic Acid CAS No. 2809-21-4 and related compounds.

Label elements	Signal Word	Hazard(s) not otherwise classified (HNOc)	Supplemental Information	Hazardous Statement
	Danger	None Known.	None.	Causes skin irritation. Causes serious eye damage. Toxic to aquatic life.

Section 3 - Composition/information on ingredients

Hazardous Components (Specific Chemical Identity: Common Name(s)) OSHA PELACGIH TLV Recommended % (optional)

This product is a proprietary formulation of generally available chemical ingredients.

A solution of the following acids:

Phosphonic Acid CAS No. 2809-21-4 and related compounds.

Section 4, First-aid measures

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
Health Hazards (Acute and Chronic)	Can cause severe eye damage or skin, respiratory, and digestive burns if mishandled.		
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	NO	NO	NO
Signs and Symptoms of Exposure			
Irritation and burning of eyes, skin, digestive or respiratory tract.			
Medical Conditions			
Generally Aggravated by Exposure		Exposed wounds.	

Emergency and First Aid Procedures

Eyes and skin - flush eyes with excess water. Wash from skin with soap and water. Inhaled - Remove subject to fresh air. Ingestion - rinse mouth and throat. Drink water or milk. In all cases, call or see a physician.

Section 5 - Fire-fighting measures

Flash Point (Method Used) NA	(Flammable Limits) NA	LEL NA	UEL NA
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Extinguishing Media

No Restrictions

Special Fire Fighting Procedures

Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

Unusual Fire and Explosion Hazards

Product can form flammable phosphine gas when heated above 250⁰ C

Section 6 - Accidental release measures

Steps to Be Taken in Case Material is Released or Spilled

Stop spill/release if possible with minimal risk. Dike far ahead of spill for later recovery or disposal. Notify appropriate agencies. Immediate clean up recommended.

Waste Disposal Method

Incinerate recovered liquid in accordance with local, state and federal regulations.

Section 7 - Handling and Storage

Precautions to Be Taken in Handling and Storing

Store in sealed drums kept in cool, dry place.

Other Precautions

Wear protective equipment if possible.

Respiratory Protection (*Specific Type*)

Use NIOSH approved respirator if conditions warrant.

Ventilation	Local Exhaust Use in well-ventilated area.	Special Additional ventilation for handling large volumes.
	Mechanical (<i>General</i>) NA	Other NA

Section 8 - Exposure controls/personal protection

Protective Gloves

Water impenetrable gloves.

Eye Protection

Chemical safety goggles recommended.

Other Protective Clothing or Equipment

Work overalls would prevent contamination of street clothes.

Work/Hygienic Practices

Wash gloves and hands before touching anything else.

Section 9 - Physical and chemical properties

Boiling Point	> 100 ⁰ C	Specific Gravity (H ₂ O=1)	1.44 ± 0.05
Vapor Pressure (mm Hg.) (at 20 ⁰ C)	As water	Melting Point	NA
Vapor Density (AIR= 1)	NA	Evaporation Rate (Butyl Acetate= 1)	NA

Solubility in Water

Completely soluble.

Appearance and Odor

Clear, colorless, odorless solution.

S – 200C Membrane Antiscalant

Section 10 - Stability and reactivity

Stability	Unstable	Conditions to Avoid
		Avoid heat and direct sun.
	Stable	X

Incompatibility (*Materials to Avoid*)

Avoid contact with caustic and strong oxidizing agents.

Hazardous Decomposition or Byproducts

If involved in a fire, oxides of phosphorous may be generated. Phosphine gas may be formed when heated beyond the evaporation of all the water.

Hazardous Polymerization	May Occur	Conditions to Avoid
		NA
	Will Not Occur	X

Section 11 - Toxicological information

Mouse, Oral, LD₅₀ > 1800 mg/kg

Section 12 - Ecological Information

NA

Section 13 - Disposal considerations

In accordance with local, state and federal regulations, dispose of container and incinerate or dispose of unused product. Also see Section 6.

Section 14 - Transportation information

DOT Hazardous Classification

US, Canada and International Transportation: Corrosive liquid, acidic, organic, N.O.S. (Contains Phosphonic Acids) 8, UN3265, III

TDG Canadian Transportation-

US, Canada and International Transportation: Corrosive liquid, acidic, organic, N.O.S. (Contains Phosphonic Acids) 8, UN3265, III

International Transportation

US, Canada and International Transportation: Corrosive liquid, acidic, organic, N.O.S. (Contains Phosphonic Acids) 8, UN3265, III

Section 15 - Regulatory Information

HMIS: Health=2 Fire=0 Reactivity=0 P=None

Section 16 - Other Information

This SDS is provided as an information resource only. The buyer assumes all responsibility for using and handling the product. In accordance with applicable federal, state and local regulations.