# SAFETY DATA SHEET

# Product Name: ACCO Aqua Koat 25-L

Release Date: 4/29/2016

Product Number: 101-2425, 102-241525

#### 1. Identification

Product Identifier: Other means of identification: CAS Number: Recommended Use: Recommended Restrictions: Supplier/Distributor Information: ACCO Aqua Koat 25-L Zinc Phosphate solution 7664-38-2, 7779-90-0, 7647-01-0 Corrosion inhibitor developed specifically for use in potable and industrial water systems None known.

ACCO Unlimited Corporation 5105 NW Johnston Dr. Johnston, IA 50131 (800) 548-2226

#### EMERGENCY PHONE NUMBER: 800-424-9300 CHEMTREC

## 2. Hazard(s) Identification

OSHA/HCS status......This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the

substance or mixture......Skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1 Specific Target Organ Toxicity, Single Exposure Category 3 respiratory tract irritation Specific Target Organ Toxicity, Repeated Exposure Category 1 (Lung) Hazardous to the aquatic environment, acute hazard Category 1 Hazardous to the aquatic environment, long-term hazard Category 1 OSHA defined hazards.....Not classified.

Hazard Statements.....Not classified.

Label elements



Signal word.....Danger

Hazard statement.....Causes severe skin burns and eye damage. May cause respiratory irritation. Causes damage to organs (Lung) through prolonged or repeated exposure.

Precautionary statements	
Prevention	Use only outdoors or in a well-ventilated area. Do not breathe mist or vapor.
	Wear protective gloves/protective clothing/eye protection/face protection.
	Avoid release to the environment.
Response	If swallowed: Rinse mouth. Do NOT induce vomiting.
	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	If inhaled: Remove person to fresh air and keep comfortable for breathing.
	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
	Specific treatment is urgent (see this label).
	Wash contaminated clothing before reuse.
	Collect spillage.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/ regional/ national
	regulations.
Hazard(s) not otherwise	
classified (HNOC)	None known.

# Section 3. Composition/information on ingredients

Μ	ixtures	
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Chemical name	CAS number	%
Phosphoric acid	7664-38-2	6 - 17
Trizinc bis(orthophosphate)	7779-90-0	5 - 16
Hydrochloric acid	7647-01-0	.2 - 3

Composition comments......All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### Section 4. First aid measures

- Skin contact......Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
- Eye contact......Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/	Duration acting and accurate compative ship demonstrate Courses continue auto
effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing. Discomfort in the chest. Shortness of breath.
Indication of immediate medical attention and	
special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

#### Section 5. Fire-fighting measures

Suitable extinguishing media: Powder. Foam. Carbon dioxide (CO2).

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions: Move containers from fire area if you can do so without risk.

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards: No unusual fire or explosion hazards noted.

#### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapors or spray mist. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up: This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions: Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## Section 7. Handling and storage

Precautions for safe handling: Do not breathe vapors or spray mist. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities: Store locked up. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## Section 8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Hydrochloric acid (CAS 7647-01-0)	Ceiling	7 mg/m3	
,		5 ppm	
Phosphoric acid (CAS 7664-38-2)	PEL	1 mg/m3	
US. ACGIH Threshold Limit Valu	es		
Components	Туре	Value	
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm	
Phosphoric acid (CAS 7664-38-2)	STEL	3 mg/m3	
,	TWA	1 mg/m3	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
Hydrochloric acid (CAS 7647-01-0)	Ceiling	7 mg/m3	
)		5 ppm	
Phosphoric acid (CAS 7664-38-2)	STEL	3 mg/m3	
,	TWA	1 mg/m3	

Biological limit values: No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection: Wear appropriate chemical resistant gloves.

Other: Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Use NIOSH approved respirator with organic vapor/acid gas protection.

Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations: Keep away from food and drink. 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.

## Section 9. Physical and chemical properties

#### Appearance

Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	None.
Odor threshold	Not applicable.
рН	2.8 ±0.5 (1 % aqueous solution)
Melting point/freezing point	< 32 °F (< 0 °C)
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	1.53 ±0.03 (77 °F (25 °C))
Solubility(ies)	
Solubility (water)	Completely soluble.
Partition coefficient	Not available.
(n-octanol/water)	
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

# Section 10. Stability and reactivity

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: Contact with incompatible materials.

Incompatible materials: Strong oxidizing agents. Strong bases.

Hazardous decomposition products: No hazardous decomposition products are known.

# Section 11. Toxicological information

Information on likely routes of exposure Inhalation: Causes respiratory tract burns. High concentrations: May cause lung damage.

Skin contact: Causes severe skin burns.

Eye contact: Causes serious eye damage.

Ingestion: Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics: Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing. Discomfort in the chest. Shortness of breath.

Information on toxicological effects

Acute toxicity: Corrosive. Causes severe skin, eye, respiratory tract, and digestive tract burns.

Components	Species	Test Results
Hydrochloric acid (CAS 764	47-01-0)	
Acute Inhalation LC50	Rat	3124 mg/l, 1 Hours
<i>Oral</i> LD50	Rabbit	900 mg/kg
Phosphoric acid (CAS 7664 Acute	4-38-2)	
Dermal LD50	Rabbit	2740 mg/kg
<i>Oral</i> LD50	Rat	1530 mg/kg

Skin corrosion/irritation: Causes skin burns.

Serious eye damage/eye irritation: Causes serious eye damage.

Respiratory or skin sensitization Respiratory sensitization: Not classified.

Skin sensitization: This product is not expected to cause skin sensitization.

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

 IARC Monographs. Overall Evaluation of Carcinogenicity

 Hydrochloric acid (CAS 7647-01-0)
 3 Not classifiable as to carcinogenicity to humans.

 OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

 Not Listed.

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure: May cause irritation to the respiratory system.

Specific target organ toxicity - repeated exposure: Causes damage to organs (Lung) through prolonged or repeated exposure.

Aspiration hazard: Not available.

Chronic effects: Prolonged, repeated exposure to acid fumes/mists may cause chronic bronchitis, irritation of skin, mucous membranes and gastrointestinal tract and erosion of the teeth.

## Section 12. Ecological information

Ecotoxicity: Very toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Phosphoric acid (CA	NS 7664-38-2)		
Aquatic			
Fish	LC50	Mosquitofish (Gambusia)	138 mg/l, 96 h
Trizinc bis(orthopho	sphate) (CAS 7779-9	0-0)	
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.09 mg/l, 96 hours

Persistence and degradability: The product is not expected to be readily biodegradable.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### Section 13. Disposal considerations

Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/ regional/ national regulations.

Local disposal regulations: Dispose in accordance with all applicable regulations.

Hazardous waste code: D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel] The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products: Dispose of in accordance with local regulations.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## Section 14. Transport information

DOT

UN number	
UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid)
Transport hazard class(es)	
Class	8
Subsidiary risk	
Label(s)	8
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB3, T7, TP1, TP28
Packaging exceptions	154
Packaging non bulk	203
Packaging bulk	241
ΙΑΤΑ	
UN number	UN3264
UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	III
Environmental hazards	Yes
ERG Code	8L
	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN3264
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid)
Transport hazard class(es)	
Class	8
Subsidiary risk	-

Label(s)	8
Packing group	
<b>Environmental hazards</b>	
Marine pollutant	Yes
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not available.
Annex II of MARPOL 73/78 and the IBC Code	

# Section 15. Regulatory information

<b>US federal regulations</b> This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.					
TSCA Section 12(b)	TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)				
Not regulated. OSHA Specifically R	egulated Substance	s (29 CFR 1910	.1001-1050)		
Not listed. CERCLA Hazardous	Substance List (40 (	CFR 302.4)			
Hydrochloric acid Phosphoric acid (	· /		LISTED LISTED		
Superfund Amendments	and Reauthorization	n Act of 1986 (S	SARA)		
Hazard categories	Immediate I Delayed Ha Fire Hazard Pressure Ha Reactivity H	l - No azard - No			
SARA 302 Extremely	hazardous substan	ice			
Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Hydrochloric acid	7647-01-0	5000	500 lbs		
SARA 311/312 Hazar chemical	dous Yes				
SARA 313 (TRI repor Chemical name	ting)		CAS number	% by wt.	
Trizinc bis(orthop Hydrochloric acid	. ,		7779-90-0 7647-01-0	22 - 26 1 - 5	
Other federal regulations	;				
Clean Air Act (CAA)	Section 112 Hazardo	ous Air Pollutar	nts (HAPs) List		
Hydrochloric acid Clean Air Act (CAA)		lental Release I	Prevention (40 CFR 68	8.130)	
Hydrochloric acid	(CAS 7647-01-0)				
Safe Drinking Water (SDWA)	Act Not regulate	ed.			
Chemical Code I	Number	-	sential Chemicals (21	CFR 1310.02(b) and 1	310.04(f)(2) and
	acid (CAS 7647-01-0 nt Administration (D		6545 Exempt Chemical Mi	xtures (21 CFR 1310.1	2(c))
	acid (CAS 7647-01-0 emical Mixtures Cod		20 %WV		
Hydrochloric	acid (CAS 7647-01-0	)	6545		
US state regulations					
US. Massachusetts F	RTK - Substance Lis	t			
Hydrochloric acid Phosphoric acid	(CAS 7647-01-0) (CAS 7664-38-2)				

#### US. New Jersey Worker and Community Right-to-Know Act

Hydrochloric acid (CAS 7647-01-0) Phosphoric acid (CAS 7664-38-2) Trizinc bis(orthophosphate) (CAS 7779-90-0)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Hydrochloric acid (CAS 7647-01-0) Phosphoric acid (CAS 7664-38-2)

#### US. Rhode Island RTK

Hydrochloric acid (CAS 7647-01-0) Phosphoric acid (CAS 7664-38-2) Trizinc bis(orthophosphate) (CAS 7779-90-0)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Ves" indicates this product or	molies with the inventory requirements administered by the governing country(s)	

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## Section 16. Other information

NFPA Health Hazard: 3 Fire Hazard: 0 Reactivity: 0

Revision Date: 9/8/2014

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