

MSD # 054

<p>Slips and falls are the # 1 cause of accidents in hotels, restaurants and public buildings.</p>		<p>AS-303 is the solution! AS-303 Anti-Slip Floor Treatment makes your floors safer wet than dry!</p>
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AS-303 MSDS

Anti-slip treatment.

MATERIAL SAFETY DATA SHEET

Section 1: Chemical Product and Company Identification	
Manufacturer	Emergency Telephone Numbers
Barco Products A Geneva Scientific Company 11 North Batavia Avenue Batavia, IL 60510	Barco Products 1-800-338-2697 Chemtrec 1-800-424-9300
Product Category:	
System to make certain surfaces slip-resistant	
Product Included:	
AS-303 [Anti-slip Treatment]	
AS-303 - a system of two solutions to be used in sequence and called Solution-A [to first prepare and then to finish the surface] and Solution-B [to treat the surface]. The solutions are packaged in one quart and one gallon bottles. Both solutions must be diluted with water prior to use. The dilutions are listed on the labels.	
The AS-303 system is intended for commercial use only. It is not intended for use by consumers.	

Because the solutions are provided in a single package or kit, their properties are reported on a single Material Safety Data Sheet.

Date Issued: 11/01/2002

Supersedes: new issue.

Section 2: Composition, Information on Ingredients		
Ingredient	Chemical Abstract Service Number	Percentage by Weight
Solution-A:		
2-butoxyethanol	111-76-2	3-7
Sodium hydroxide	1310-73-2	1-5
Sodium silicate	1344-09-9	1-5
Solution-B:		
Ammonium Bifluoride	1341-49-7	10-30
Phosphoric acid	7664-38-2	10-30

Section 3: Hazards Identification

Emergency Overview

The AS-303 system is intended to create a slip resistant surface on porcelain or ceramic tubs, ceramic, quarry and porcelain tiles and natural marble, granite, and concrete floors. It is not intended for other surfaces, such as fiberglass, vinyl, cork, plastic, or wood.

When used as directed, the AS-303 system is not expected to cause major health or safety problems.

Improper use of any solution in the AS-303 kit could lead to eye and skin exposure and possible inhalation and ingestion. Exposed eyes and skin could become red and irritated. Inhalation could produce irritation of the throat and symptoms such as coughing. Ingestion of any component could provoke gastro-intestinal irritation, evidenced by choking, spiting, vomiting, or other symptoms. In particular, ingestion of Solution-B could cause delayed symptoms, associated with fluoride poisoning.

The liquid solutions will not burn. However, the outer packaging and the containers could burn. The solutions, if evaporated to dryness, may decompose to give off ammonia, corrosive amines, oxides of carbon, nitrogen, and sulfur, and other irritating/toxic gases. In addition, decomposed Solution-B could generate hydrogen fluoride.

The use solutions consist of dilutions. Therefore, the health and safety properties of use solutions should be proportionately diminished below those of the solutions provided in the kit.

<p>HMIS Rating: 2</p> <p>Health:</p> <p>Flammability: 0</p> <p>Reactivity: 0</p> <p>Protective Equipment: B</p>	<p>NFPA Rating: 2</p> <p>Health:</p> <p>Flammability: 0</p> <p>Reactivity: 0</p>
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POTENTIAL HEALTH EFFECTS

ACUTE

EYE: May produce redness and irritation.

<p>SKIN: May produce redness and irritation.</p>
<p>INHALATION: May irritate the mouth and throat. Effects from inhalation of Solution-B could be delayed.</p>
<p>INGESTION: Could provoke gastric irritation and nausea. Effects from ingestion of Solution-B could be delayed.</p>
<p>CHRONIC</p>
<p>Prolonged or repeated eye exposure to either of the kit solutions could produce corneal burns. Prolonged or repeated skin exposure to either of the kit solutions could provoke dermatitis and/or blisters. Prolonged exposure by inhalation of any of the kit solutions could produce coughing, burns, breathing difficulty. Ingestion of large amounts could produce esophageal and gastric burns.</p> <p>In addition, chronic ingestion of Solution-B could lead to kidney and brain damage and affect the heart and circulatory system [fluoride toxicity]. Other chronic symptoms from ingestion of Solution-B could include mottling of teeth, bone damage [osteosclerosis], weight loss, anemia, calcified ligaments, and other symptoms of fluorosis.</p>
<p>SIGNS AND SYMPTOMS</p>
<p>"Itchy" sore eyes or skin. Persistent sore throat.</p>
<p>See Section 11, Toxicological Information</p>

<p>Section 4: First Aid Measures</p>	
<p>First Aid Procedures</p>	
<p>EYE:</p>	<p>Remove the person from the site and into fresh air. Flush the eyes with plenty of water for at least 15 minutes. If necessary, gently hold the eyelids open during the flush. Obtain immediate medical attention.</p>
<p>SKIN:</p>	<p>Remove the person from the site and into fresh air. Remove contaminated clothing and shoes. First rinse affected area with water, then wash with soap and water. If irritation or other symptoms persist, seek medical attention. Launder or discard contaminated clothing.</p>

INGESTION:	Obtain immediate medical attention. Allow the conscious person to drink one or two cups of water. Do not induce vomiting unless directed to do so by medical personnel. Should vomiting occur, be sure to keep the victim's head below the hips to avoid aspiration of vomitus into the lungs
INHALATION:	Obtain immediate medical attention. Move the victim into fresh air. If the victim has difficulty breathing, administer oxygen. Administer artificial respiration if the victim is not breathing.
Note to Physician	
Large exposure to Solution-B could provoke systemic effects, such as hypocalcemia and hypomagnesia, symptomatic of fluoride exposure.	

Section 5: Fire Fighting Measures	
Fire and Explosive Properties	
Flash Point and method	N/A [same as water]
LEL/UEL in air	N/A
Autoignition temperature	N/A
Known/anticipated hazardous combustion products	If product evaporates and decomposes, oxides of nitrogen, carbon, and sulfur, ammonia, corrosive amines, hydrogen fluoride from decomposition of Solution-B.
Extinguishing Media	
The kit or use solutions are essentially non-flammable. The outer packaging or the container may burn. Control fire with appropriate media.[dry chemical, water spray, water fog, CO ₂ , foam, or sand/earth].	
Fire-fighting Instructions	
Due to possibility of evolution of toxic gases, fire fighters should wear NIOSH approved self-contained breathing apparatus and full protective gear. Contain runoff water.	

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Section 6: Accidental Release Measures
<ul style="list-style-type: none"> - Small spills: wipe up with cloths, paper towels or similar materials. Wash off residue with soap and water. Put used materials in solid waste. - Large spills: contain with dikes of sand, vermiculite, clay, or other appropriate material. Absorb liquid with material used to make the dike. Shovel or sweep up the absorbed material and dispose of as solid waste, according to local, state, or federal regulations.

Section 7: Handling and Storage
Handling
<ul style="list-style-type: none"> - When manufacturing or handling bulk material, wear rubber gloves, safety glasses, and protective clothing. Avoid breathing any dusts or mists generated. - When using finished product, wear rubber gloves and safety glasses. - After handling any amount, wash hands with soap and water.
Storage
<p>Keep containers tightly sealed. May be stored in any suitable chemical storage area. Avoid extremes of temperature.</p>

Section 8: Exposure Controls, Personal Protection	
Engineering Controls	
Use natural or mechanical ventilation.	
Personal Protective Equipment [PPE]	
EYE/FACE:	Safety glasses
SKIN:	Rubber gloves
RESPIRATORY:	None required for normal handling and application
Exposure Guidelines [mg/m³ unless otherwise indicated]	

Ingredient	OSHA		ACGIH	
	TWA	STEL	TWA	STEL
Phosphoric acid	1	N/A	1	3
Sodium hydroxide	2	N/A	2 [ceiling]	N/A
Sodium silicate	80	N/A	10 [inhalable] 3 [respirable]	N/A
2-butoxyethanol	50 ppm [skin]	N/A	20 ppm [skin]	N/A
Ammonium bifluoride	2.5	N/A	2.5	N/A

Section 9: Physical and Chemical Properties

Appearance	Solution-A: orange liquid Solution-B: purple liquid
Odor	Solution-A: bubble-gum Solution-B: cherry
Physical State	Liquid [all components]
pH	Solution-A: Approx 12 Solution-B: 3 to 4
Vapor pressure	Approx. 24 mm Hg [both solutions]
Vapor density	Same as air [both solutions]
Boiling point	Approx. 100 deg C [both solutions]
Freezing/melting point	Approx. 0 deg C [both solutions]

Solubility in water	Complete [both solutions]
% Volatiles	approx 50 to 80% as water vapor [both solutions]
Specific gravity	Greater than water [both solutions]
VOC content	Not applicable

Section 10: Stability and Reactivity	
Chemical stability	Stable [both solutions]
Hazardous polymerization	Will not occur [both solutions]
Conditions to avoid	<ul style="list-style-type: none"> - Intense heat [both solutions] - Storage in aluminum or copper containers [Solutions A] - Storage in metal containers [Solution-B]
Incompatibility with other materials	<ul style="list-style-type: none"> - Both solutions: strong oxidizing agents [e.g., bleach] and halogens; metals - Solution-A: strong acids - Solution-B: strong alkalies
Hazardous decomposition products	Oxides of nitrogen, carbon, and sulfur, ammonia, corrosive amines [all components] and hydrogen fluoride from decomposition of Solution-B.

Section 11: Toxicological Information	
Acute Effects [expressed as LD ₅₀ or other result in animal]	
EYE	No data for product or individual ingredients
SKIN	No data for product components.

	2-butoxyethanol: 220 mg/kg [rabbit].	
	No data for other ingredients.	
INGESTION	Product or Ingredient	LD50 for rat or other animal
	Product components	No data
	Phosphoric acid	1530 mg/kg
	Sodium hydroxide	>90 mL/kg
	Sodium silicate	No data
	2-butoxyethanol	470 mg/kg
	Ammonium bifluoride	No data
INHALATION	See Section 8 for OSHA/ACGIH exposure data.	
Chronic Effects		
See Section 3. No other data available.		
Carcinogenicity		
No named ingredient is listed as carcinogenic by N.T.P., IARC, or OSHA. Alkylphenol ethoxylate may contain trace amounts of ethylene oxide [CAS 75-21-8], listed by OSHA, N.T.P., and IARC as a carcinogen and reproductive hazard. If present in the product, the level of this substance would be much lower than in the ingredient.		

Section 12: Ecological Information
There is no data on the effect of this product on aquatic or terrestrial life forms.

Section 13: Disposal Considerations

Dispose of according to local, state, or federal regulation, as directed in Section 6. Uncleaned containers should be disposed of in the same manner as the contents.

Section 14: Transportation Information	
<p>DOT [HM 181]:</p> <p>AS-303 Kit:</p> <p>Land transport ORM-D</p> <p>Air Transport ORM-D "Corrosive Liquid Acidic Inorganic NOS"</p> <p>Components of AS-303 Kit in bulk transport:</p> <p>Solution-A: not regulated</p> <p>Solution-B: Class 8 [UN3264. Corrosive Liquid Acidic Inorganic NOS], PG III</p>	
<p>International Transport Regulations:</p> <p>Solution-A: not regulated</p> <p>Solution-B: Class 8 [UN3264. Corrosive Liquid Acidic Inorganic NOS], PG III</p>	

Section 15: Regulatory Information	
U.S. Federal Regulations	
OSHA STATUS:	No hazardous ingredients per 29 CFR 1910.1200
TSCA STATUS	Ingredients on TSCA Inventory
CERCLA REPORTABLE QUANTITY	None

SARA, TITLE III 302 EXTREMELY HAZARDOUS CHEMICALS:	None
SARA, TITLE III 313: TOXIC CHEMICALS:	None
RCRA STATUS	If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic.

Section 16: Other Information	
Text, Warnings, or Other Health/Safety Information that Must Appear on Product Label	
<p>- Keep out of reach of children.</p> <p>- Always wear safety glasses and rubber gloves and assure adequate ventilation when handling AS-303.</p> <p>- First Aid:</p> <p style="padding-left: 40px;">Eye: Remove contact lenses. Flush eyes with water for 15 minutes. Obtain medical attention.</p> <p style="padding-left: 40px;">Skin: Remove contaminated clothing. Rinse affected area with water. Then wash with soap and water. If irritation persists, seek medical assistance.</p> <p style="padding-left: 40px;">Internal: Seek medical attention immediately. Have victim, if conscious, drink water Do not induce vomiting.</p> <p style="padding-left: 40px;">Inhalation: Move to fresh air</p> <p>- Solution-A contains caustic soda, surfactants and degreasers. Avoid contact with eyes and skin.</p> <p>- Solution-B contains inorganic mineral acids and active fluoride compounds. Avoid contact with eyes and skin.</p>	
Disclaimer	
<p>To the best of our knowledge, the information contained herein is accurate. However, Barco Products does not assume any liability whatsoever for the accuracy of the information contained herein. Barco Products assumes no legal responsibility for use of or reliance upon these data. It is the user's sole responsibility to judge the suitability of this product. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.</p>	

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