# Shine ALS



# **Technical Dossier**

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Shepard Bros. Inc. | 503 S. Cypress St. La Habra, CA 90631 800.645.3594 | www.shepardbros.com



# SHINE ALS Acid Cleaner

#### **PRODUCT DESCRIPTION**

**SHINE ALS** is a strongly acidic, non-foaming liquid cleaner containing sulfuric and hydrofluoric acids formulated specifically to clean and brighten aluminum and stainless steel equipment.

#### **PROPERTIES AND BENEFITS**

- Works in all water conditions.
- Maintains effectiveness at high temperatures.
- Concentrated to provide optimal use/cost performance.
- Penetrates and dissolves silica and calcium-based hard water deposits.
- Biodegradable and free rinsing.
- Restores original brightness to aluminum and stainless steel equipment

#### DIRECTIONS

Use Dilution: 2-4 fluid oz. to 1 gallon water.

Consult your Shepard Bros., Inc. representative for specific use instructions and recommended dispensing equipment.

#### SAFE HANDLING

A Safety Data Sheet containing detailed information regarding the properties and safe handling of **SHINE ALS** is available on request and should be reviewed prior to using this product.

(Rev. 11/16)

The technical information and use suggestions herein are presented in good faith and are believed to be reliable. They do not constitute a part of our terms and conditions of sale unless specifically incorporated in our Order Acknowledgement. Nothing herein shall be deemed to constitute a warranty, expressed or implied, that said information or data are correct, or that the product described is merchantable or fit for a particular purpose, or that said information, data or product can be used without infringing patents of a third party. The purchaser must determine individually, by preliminary tests or otherwise, the suitability of this product for the intended purpose.



# **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Code:	SHIALS
Product Name:	Shine ALS
Company Name:	Shepard Bros., Inc.
	503 S. Cypress St.
	La Habra, CA 90631
Web site address:	www.shepardbros.com
Emergency Contact:	CHEMTREC

Phone Number: +1 (562)697-1366

+1 (800)424-9300

Product Category:

Aluminum Cleaner

# 2. HAZARDS IDENTIFICATION

Acute Toxicity: Inhalation, Category 4 Acute Toxicity: Oral, Category 4 Acute Toxicity: Skin, Category 3 Skin Corrosion/Irritation, Category 2

GHS Signal Word:	Danger
GHS Hazard Phrases:	H302 - Harmful if swallowed.
	H315 - Causes skin irritation.
	H311 - Toxic in contact with skin.
	H332 - Harmful if inhaled.
GHS Precaution Phrases:	P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
	P264 - Wash hands thoroughly after handling.
	P270 - Do not eat, drink or smoke when using this product.
	P271 - Use only outdoors or in a well-ventilated area.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
GHS Response Phrases:	P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 - Rinse mouth.
	P302+352 - IF ON SKIN: Wash with plenty of soap and water. P361 - Remove/Take off
	immediately all contaminated clothing. P332+313 - If skin irritation occurs, get medical advice/attention. P363 - Wash contaminated clothing before reuse.
	P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position
	comfortable for breathing. P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
	P321 - Specific treatment see Section 4 reference to supplemental first aid instruction - if immediate measures are required.
GHS Storage and Disposal	P405 - Store locked up. P501 - Dispose of contents and containers in accordance with
Phrases:	local, regional, national, and international regulations.



Hazard Rating System:



Potential Health Effects (Acute and Chronic):	
Inhalation:	Mild exposure may irritate the nose, throat, and respiratory tract. Effects may be delayed. Severe exposure may cause nose and throat burns, lung inflammation, and pulmonary edema. May result in systemic effects including depletion of calcium levels in the body, which if not promptly treated, can result in death due to hypocalcemia.
Skin Contact:	Direct vapors, mists, and liquid, at full strength, are extremely corrosive to the skin. Brief contact of the vapors will severely burn the skin. Prolonged contact over a large area of the body may be fatal. Skin Absorption: Skin absorption may occur. Both liquid and vapor can cause severe burns, which may not be immediately painful or visible. Hf will penetrate the skin and attack underlying tissue and bone. Large burns may cause hypocalcemia and other systemic effects, which may be fatal.
Eye Contact:	Vapors, mists, and liquid at full strength are extremely corrosive to the eyes. Brief contact of the vapors will be severely irritating. Brief contact of the mist or liquid will cause severe eye damage.
Ingestion:	Vapors, mists, and liquid at full strength are extremely corrosive to the mouth and throat. Swallowing of liquid may cause tissue burns, severe abdominal pain, nausea, vomiting, and collapse. Ingestion of a large amount may be fatal. Even with small amounts or dilute solutions, profound and possibly fatal hypocalcemia and systemic toxicity is likely to occur unless medical treatment is promptly initiated.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
7664-39-3	Hydrogen fluoride	>1.00 %
7664-93-9	Sulfuric acid	>1.00 %
7664-38-2	Phosphoric acid	>1.00 %

# 4. FIRST AID MEASURES

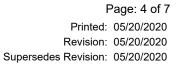
Emergency and First Aid Procedures:	
In Case of Inhalation:	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. Get medical aid immediately.
In Case of Skin Contact:	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Gently wash with plenty of soap and water. Wash contaminated clothing separately before reuse. Get medical aid immediately.
In Case of Eye Contact:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do after 5 minutes and continue rinsing for an additional 15 minutes. Get medical aid immediately.
In Case of Ingestion:	Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.



Note to Physician:	Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.
	5. FIRE FIGHTING MEASURES
Flash Pt:	NA Method Used: Not Applicable
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	NA
Suitable Extinguishing Media	a:Dry chemical, CO2 or water spray.
Fire Fighting Instructions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved (or equivalent), and full protective gear. Floors wetted with this material are slippery.
Flammable Properties and Hazards:	Oxidation may produce hydrogen fluoride gas and fluorine gas.
	6. ACCIDENTAL RELEASE MEASURES
Protective Precautions, Protective Equipment and Emergency Procedures:	Use proper personal protective equipment as indicated in Section 8.
<b>Environmental Precautions:</b>	Do not let product enter drains, sewers, watersheds or water systems.
Steps To Be Taken In Case Material Is Released Or Spilled:	Provide ventilation. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). At ALL times, rubber gloves and goggles should be worn. Wipe or mop up small spills. Dike and absorb large spills with absorbent. Place all material into DOT-approved containers. Neutralize residue with diluted soda ash or lime to PH 6-9. If soda ash is used, provide adequate ventilation to dissipate carbon dioxide gas.
	7. HANDLING AND STORAGE
Precautions To Be Taken in Handling: Precautions To Be Taken in Storing:	Use as directed. Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Remove contaminated clothing and wash before reuse. Store in a cool, dry, well-ventilated area away from incompatible substances. Do not store in direct sunlight. Keep away from heat, sparks and flame. Store in a tightly closed container. Keep container closed when not in use. Protect containers against damage.
Other Precautions:	This product may contain a trace amount of one or more of the chemicals on the California list of known carcinogens or substances known to cause birth defects or other reproductive harm. These are not added to the product but occur naturally in the raw materials or processing equipment.
	Handle in accordance with good industrial hygiene and safety practices. Keep out of reach of children.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7664-39-3	Hydrogen fluoride	PEL: 3 mg/m3	STEL: 3 mg/m3	No data.
7664-93-9	Sulfuric acid	PEL: 1 mg/m3	STEL: 1 mg/m3	No data.
7664-38-2	Phosphoric acid	PEL: 1 mg/m3	STEL: 1 mg/m3	No data.



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Respiratory Equipment (Specify Type):	Avoid breathing vapors and mists. If ventilation is not sufficient to effectively prevent buildup of vapors or mists and the exposure limit is exceeded, use a NIOSH/MSHA approved respirator. NIOSH/MSHA organic vapor respirator.
Eye Protection:	Wear chemical splash goggles and a full-face shield where there is potential for eye contact.
Protective Gloves:	Wear appropriate gloves to prevent skin exposure. Acid resistant gloves.
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure. Chemical resistant apron. Full protective clothing or suit. Acid resistant boots.
Engineering Controls (Ventilation etc.):	Ensure adequate ventilation. Use explosion-proof ventilation equipment. Use adequate mechanical or local exhaust ventilation to minimize exposure levels, particularly in areas where the air contacts open process equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Work/Hygiopia/Maintonanaa	Handle in accordance with good industrial hygiene and safety practice

Practices:

Work/Hygienic/Maintenance Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[]Gas [X]Liquid []Solid
Appearance and Odor:	Appearance: Clear. colorless. Liquid.
	Odor: Acid-like.
Melting Point:	29.0 F (-1.7 C)
Boiling Point:	200 F (93.3 C)
Decomposition Temperature:	: NA
Autoignition Pt:	NA
Flash Pt:	NA Method Used: Not Applicable
Explosive Limits:	LEL: No data. UEL: No data.
Specific Gravity (Water = 1):	1.152
Density:	NA
Bulk density:	NA
Vapor Pressure (vs. Air or	3.3 MM_HG at 68.0 F (20.0 C)
mm Hg):	
Vapor Density (vs. Air = 1):	0.62
Evaporation Rate:	> 1
Solubility in Water:	Complete
Saturated Vapor	NA
Concentration:	
Viscosity:	NA
pH:	1
Percent Volatile:	NA
VOC / Volume:	NA
Particle Size:	NA
Heat Value:	NA
Corrosion Rate:	NA

	10. STABILITY AND REACTIVITY
Reactivity:	Oxidation may produce hydrogen fluoride gas and fluorine gas.
Stability:	Unstable [ ] Stable [ X ]
Conditions To Avoid - Instability:	High temperatures, Ignition sources, Incompatible materials.
Incompatibility - Materials To Avoid:	o Strong oxidizing agents, Strong reducing agents.
Hazardous Decomposition of Byproducts:	or Oxidation may produce hydrogen fluoride gas and fluorine gas.
Possibility of Hazardous Reactions:	Will occur [ ] Will not occur [ X ]
Conditions To Avoid - Hazardous Reactions:	No data available.
	11. TOXICOLOGICAL INFORMATION
Toxicological Information:	Epidemiology: No information available. Teratogenicity: No information available. Reproductive Effects: No information available. Mutagenicity: No information available. Neurotoxicity: No information available.
	Other Studies: CAS# 7664-38-2: Acute toxicity, LD50, Oral, Rat, 1530 mg/kg Acute toxicity, LD50, Skin, Rabbit, 2740 mg/kg Acute toxicity, LC50, Inhalation, Rat, 850.0 mg/m3, 1 H.
	Other Studies: CAS# 7664-39-3: Acute toxicity, LC50, Inhalation, Rat, 1276ppm, 1 H.
Irritation or Corrosion:	Other Studies: CAS# 7664-93-9: Acute toxicity, LD50, Oral, Rat, 2140 mg/kg Acute toxicity, LC50, Inhalation, Rat, 510.0 mg/m3, 2 H. Other Studies: CAS# 7664-38-2: Standard Draize Test, Eyes, Species:Rabbit, 119.0 mg.
	Other Studies: CAS# 7664-93-9: Standard Draize Test, Eyes, Species: Rabbit, 250 ug.
Carcinogenicity/Other Information:	Other Studies: CAS# 7664-39-3: Standard Draize Test, Eyes, Species:Human, 50 mg. This product may contain a trace amount of one or more of the chemicals on the California list of known carcinogens or substances known to cause birth defects or other reproductive harm. These are not added to the product but occur naturally in the raw materials or processing equipment.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

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		12. ECOLOGICA			
General Eco	logical	Environmental: No informat			
Information:		Physical: No information av			
	BT and vPvB	Other Studies: CAS# 7664-			
assessment		Not reported. Rainbow Trou	it (Oncorhynchus r	nykiss), fingerling,	5.190%, 27 W.
		Other Studies: CAS# 7664-	93-9:		
		LC50, Western Mosquitofis	h (Gambina affinis)	), adult(s), 42000 u	g/L, 24H, Mortality
		LC50, Common Shrimp, Sa 48H, Mortality.	nd Shrimp (Crange	on crangon), adult(	s), 70000 - 80000 ug/L,
Persistence	and	No data available.			
Degradabilit	y:				
Bioaccumula	ative Potential:	No data available.			
Mobility in S	oil:	No data available.			
		13. DISPOSAL C	ONSIDERAT	TIONS	
Waste Dispo	sal Method:	Chemical waste generators	must determine w	hether a discarded	chemical is classified as
		a hazardous waste. US EP	•		
		CFR Parts 261. Additionally			
		waste regulations to ensure		urate classification	. Observe all federal,
		state, and local environmer	ital regulations.		
		14. TRANSPOR		TION	
LAND TRAN	SPORT (US DOT		T INFORMA	TION	
	SPORT (US DOT	Г):			l, and Phosphoric acid
	SPORT (US DOT per Shipping Na	Г):			l, and Phosphoric acid
DOT Pro DOT Haz	per Shipping Na ard Class:	<b>F):</b> <b>me:</b> Corrosive liquids, toxic, mixture) ERG - 154. 8 CORR	n.o.s. (Sulfuric aci OSIVE	d, Hydrofluoric acio	
DOT Pro	per Shipping Na ard Class:	Г): me: Corrosive liquids, toxic, mixture) ERG - 154.	n.o.s. (Sulfuric aci	d, Hydrofluoric acio	l, and Phosphoric acid
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DOT Pro DOT Haz UN/NA N EPA SARA (S CAS #	per Shipping Na ard Class: umber: umber: uperfund Amenda Hazardous Cor	T): me: Corrosive liquids, toxic, mixture) ERG - 154. 8 CORR UN2922 CORROSIVE 8 CORROSINE 15. REGULATOI ments and Reauthorization Ac nponents (Chemical Name)	n.o.s. (Sulfuric aci DSIVE Packing G RY INFORMA t of 1986) Lists S. 302 (EHS)	d, Hydrofluoric acio	
DOT Pro DOT Haz UN/NA N EPA SARA (S	per Shipping Na ard Class: umber: umber:	T): me: Corrosive liquids, toxic, mixture) ERG - 154. 8 CORR UN2922 CORROSIVE 8 CORROSINE 15. REGULATOI ments and Reauthorization Ac nponents (Chemical Name)	n.o.s. (Sulfuric aci DSIVE Packing G NTRENTIME RY INFORMA t of 1986) Lists	d, Hydrofluoric acid Group:	
DOT Pro DOT Haz UN/NA N EPA SARA (S CAS #	per Shipping Na ard Class: umber: umber: uperfund Amenda Hazardous Cor	T): me: Corrosive liquids, toxic, mixture) ERG - 154. 8 CORR UN2922 CORROSIVE 8 CORROSINE 15. REGULATOI ments and Reauthorization Ac nponents (Chemical Name)	n.o.s. (Sulfuric aci DSIVE Packing G RY INFORMA t of 1986) Lists S. 302 (EHS)	d, Hydrofluoric acid Froup: TION S. 304 RQ	II S. 313 (TRI)
DOT Pro DOT Haz UN/NA N EPA SARA (S CAS # 7664-39-3	per Shipping Na ard Class: umber: umber: Guperfund Amende Hazardous Cor Hydrogen fluorid	T): me: Corrosive liquids, toxic, mixture) ERG - 154. 8 CORR UN2922 UN2922 <b>15. REGULATO</b> ments and Reauthorization Ac nponents (Chemical Name) de	n.o.s. (Sulfuric aci DSIVE Packing G RY INFORMA t of 1986) Lists S. 302 (EHS) Yes 100 LB	d, Hydrofluoric acid Froup: TION S. 304 RQ Yes 100 LB	II <b>S. 313 (TRI)</b> Yes
DOT Pro DOT Haz UN/NA N EPA SARA (S CAS # 7664-39-3 7664-93-9	per Shipping Na ard Class: umber: umber: Guperfund Amende Hazardous Cor Hydrogen fluoric Sulfuric acid Phosphoric acid	T): me: Corrosive liquids, toxic, mixture) ERG - 154. 8 CORR UN2922 UN2922 <b>15. REGULATO</b> ments and Reauthorization Ac nponents (Chemical Name) de	n.o.s. (Sulfuric aci DSIVE Packing G Packing G Note: A sector of the sec	d, Hydrofluoric acid Froup: TION S. 304 RQ Yes 100 LB Yes 1000 LB Yes 5000 LB	ll <b>S. 313 (TRI)</b> Yes Yes
DOT Pro DOT Haz UN/NA N EPA SARA (S CAS # 7664-39-3 7664-93-9 7664-38-2	per Shipping Na ard Class: umber: umber: Guperfund Amende Hazardous Cor Hydrogen fluoric Sulfuric acid Phosphoric acid	T): me: Corrosive liquids, toxic, mixture) ERG - 154. 8 CORR UN2922 UN2922 <b>15. REGULATO</b> ments and Reauthorization Ac nponents (Chemical Name) de	n.o.s. (Sulfuric aci DSIVE Packing G Packing G No RY INFORMA t of 1986) Lists S. 302 (EHS) Yes 100 LB Yes 1000 LB No Other US EPA o	d, Hydrofluoric acid Froup: TION S. 304 RQ Yes 100 LB Yes 1000 LB Yes 5000 LB Yes 5000 LB or State Lists entory, 4 Test, 12(b);	ll <b>S. 313 (TRI)</b> Yes Yes
DOT Pro DOT Haz UN/NA N EPA SARA (S CAS # 7664-39-3 7664-93-9 7664-38-2 CAS #	per Shipping Na ard Class: umber: superfund Amende Hazardous Cor Hydrogen fluorio Sulfuric acid Phosphoric acid Hazardous Cor	T): me: Corrosive liquids, toxic, mixture) ERG - 154. 8 CORR UN2922 UN2922 <b>15. REGULATO</b> ments and Reauthorization Ac nponents (Chemical Name) de	n.o.s. (Sulfuric aci DSIVE Packing G Packing G Packing G Packing G S S 302 (EHS) Yes 100 LB Yes 100 LB Yes 100 LB No Other US EPA o TSCA: Yes - Inve TAC, Title 8: TAU	d, Hydrofluoric acid iroup: TION S. 304 RQ Yes 100 LB Yes 1000 LB Yes 5000 LB ir State Lists entory, 4 Test, 12(b); C, Title 8	ll <b>S. 313 (TRI)</b> Yes Yes No



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**Regulatory Information:** 

This product may contain a trace amount of one or more of the chemicals on the California list of known carcinogens or substances known to cause birth defects or other reproductive harm. These are not added to the product but occur naturally in the raw materials or processing equipment.

# **16. OTHER INFORMATION**

05/20/2020

Jose Arias

No data available.

Revision Date: Preparer Name: Additional Information: Company Policy or Disclaimer:

Information presented herein is believed to be accurate and reliable to the best of our knowledge. However, we make no warranty or merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. 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. Users should make their own investigations to determine the suitability of the information for their particular purposes.

# Shine ALS (Formerly Alum-O-Shine)

# ALUMINUM CLEANER

Harmful if inhaled. Harmful if swallowed. Causes skin irritation. Toxic in contact with skin.

**Precautionary Statements:** Avoid breathing mist/vapors/spray. Wear protective gloves, protective clothing, eye protection, and face protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

#### **Response Phrases:**

IF ON SKIN: Immediately remove all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs, get medical advice/attention.

IF SWALLOWED: Rinse mouth. Call a POISON CENTER or a doctor if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or a doctor if you feel unwell.

SPECIFIC TREATMENT: See Section 4 of the SDS to reference supplemental first aid instruction if immediate measures are required.

**Storage/Disposal:** Store locked up. Dispose of contents and containers in accordance with local, regional, national, and international regulations.

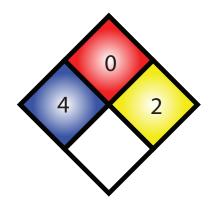
**Supplemental Information:** This product is corrosive to the eyes and skin. Exposure to hydrofluoric acid can produce harmful health effects that may NOT be immediately apparent.

KEEP OUT OF REACH OF CHILDREN.



SHEPARD BROS., INC. 503 S. CYPRESS ST. La Habra, CA 90631 • (562) 697-1366 CONTAINS: HYDROFLUORIC ACID, SULFURIC ACID AND PHOSPHORIC ACID. DO NOT MIX WITH CHLORINATED DETERGENTS.

Contact your Shepard Bros., Inc. representative for more specific use instructions and recommended dispensing equipment.



Read safety data sheets for more detailed information.

PROPER SHIPPING NAME: UN2922, CORROSIVE LIQUIDS, TOXIC, N.O.S. (SULFURIC ACID, HYDROFLUORIC ACID, PHOSPHORIC ACID MIXTURE), ERG-154, 8, (6.1), PGII

PRODUCT ID:

BATCH NO.:

NET CONTENTS:



503 S. Cypress St., La Habra, CA 90631

phone: 562/697-1366 fax: 562/697-5786

January 1, 2022

Based on current U.S. Food and Drug Administration Guidelines, this Letter of Guarantee certifies that the Shepard Bros., Inc. product, **Shine ALS**, is safe and suitable as an acid cleaner for use in all departments of establishments processing food for human or animal consumption.

When used according to the product label directions and in accordance with Good Manufacturing Practice this product will have no deleterious effects on the foods being processed.

This product must be used, handled and stored in a manner that will not adulterate food products. Before using this compound, food products and packaging materials must be removed from the room or carefully protected. After using this compound, all surfaces in the area must be thoroughly rinsed with potable water. This product must always be used according to applicable label directions.

Sincerely,

Jose Arias Director of Compliance & Regulatory Affairs Shepard Bros., Inc.



### Shine ALS Acidity Test Kit SBRTK1000-Z

1. Rinse bottle 3 times with solution to be tested.

- 2. Measure out 1 mL of the solution and transfer it to the 50 mL bottle.
- 3. Dilute to 5 or 10 mL mark with deionized water. Swirl to mix
- 4. Add 3 drops of Phenolphthalein indicator (PH1705). Swirl to mix.
- 5. Add 1.0 N Sodium Hydroxide (SH6255) drop-wise while swirling until the sample color turns pink. Count the number of drops. Hold bottle vertically.

### Calculation:

#### \*\*\*IF USING 5 mL sample:

number of drops x 0.4 = to obtain % acidity as Sulfuric acid (by weight) number of drops x 0.091 = to obtain % product in solution (by volume) number of drops x 0.125= to obtain fl-oz product/gallon number of drops x 910 = to obtain ppm product in solution ( by volume) **Example:** 1 fl-oz/ gal = 8 drops 2 fl-oz/ gal = 16 drops 1 % product (by vol) = 11 drops 2 % product (by vol) = 6 drops \*\*\*\***IF USING 10 mL sample:** number of drops x 0.2 = to obtain % acidity as Sulfuric acid (by weight)

number of drops x 0.048 = to obtain % product in solution (by volume)

number of drops x 0.0625= to obtain fl-oz product/gallon

number of drops x 480 = to obtain ppm product in solution ( by volume)

**Example:** 0.5 fl-oz/gal = 8 drops

1 % product (by vol) = 21 drops

NOTE: For accuracy and consistency hold the dropper bottle in a vertical position during the titration.

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