# In-Fact 606



# **Technical Dossier**

## **Table of Contents**

- -Technical Bulletin
- -SDS
- -Label
- -Letter of Guarantee
- -Titration Procedure

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



# In-Fact 606

### **Foaming Chlorinated Alkaline Cleaner**

#### PRODUCT DESCRIPTION

**IN-FACT 606** is a foaming, chlorinated, alkaline cleaner developed for cleaning hard to remove food soils. **IN-FACT 606** is exceptionally effective in removing fat, blood, protein and other food soils found in many food processing industries.

#### **PROPERTIES AND BENEFITS**

- CHLORINE STABLE the available chlorine will not cause heat or gas reactions.
- SELF-FOAMING foam clings to surfaces longer for better cleaning results.
- HIGHLY CONCENTRATED PRODUCT provides cost-effective cleaning.
- LIQUID eliminates dissolving problems common with highly alkaline powders.

#### DIRECTIONS

Use 2 - 6 fl. oz. IN-FACT 606per 1 gallon of water (<150°F).

Allow a contact time of 5 -12 minutes then thoroughly rinse with potable water.

Not for use on galvanized surfaces, aluminum or other soft metals.

Consult Shepard Bros Inc. representative for specific use instructions and recommended dispensary equipment.

#### SAFE HANDLING

A Safety Data Sheet containing detailed information regarding the properties and safe handling of **IN-FACT 606** is available on request and should be reviewed prior to using this product.

(Rev. 10/16)

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.



In-Fact 606

Page: 1 of 7 Printed: 02/04/2020 Revision: 02/04/2020

Supersedes Revision: 02/04/2020

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** IF606

**Product Name:** In-Fact 606

Shepard Bros., Inc. **Company Name: Phone Number:** +1 (562)697-1366

503 S. Cypress St. La Habra, CA 90631

www.shepardbros.com Web site address:

CHEMTREC +1 (800)424-9300 **Emergency Contact:** 

Chlorinated Alkaline Cleaner **Product Category:** 

#### 2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 1A Aquatic Toxicity (Acute), Category 2



**GHS Signal Word:** Danger

**GHS Hazard Phrases:** H314 - Causes severe skin burns and eye damage.

H401 - Toxic to aquatic life.

**GHS Precaution Phrases:** P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P273 - Avoid release to the environment.

P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated **GHS Response Phrases:** 

clothing. Rinse skin with water/shower. P363 - Wash contaminated clothing before

reuse.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. P310 - Immediately call a POISON CENTER or

doctor/physician.

P321 - Specific treatment see Section 4 reference to supplemental first aid instruction - if

immediate measures are required.

**GHS Storage and Disposal** 

P501 - Dispose of contents/containers in accordance with

local/regional/national/international regulations. Phrases:

**Hazard Rating System:** 



#### SAFETY DATA SHEET In-Fact 606

Page: 2 of 7 Printed: 02/04/2020 Revision: 02/04/2020

Supersedes Revision: 02/04/2020

Potential Health Effects (Acute and Chronic):

Prolonged or repeated eye contact may cause conjunctivitis.

Prolonged or repeated skin contact may cause dermatitis.

Chronic: Effects may be delayed.

**Inhalation:** Inhalation of mists may cause severe irritation or burns to the nose, mouth, throat,

mucous membranes, and lungs.

**Skin Contact:** May cause severe irritation and possible burns.

Eye Contact: May cause severe irritation and possible burns. May cause eye damage. Eye damage

may be delayed.

**Ingestion:** Ingestion of a large amount may be fatal. Ingestion can cause severe irritation and/or

burns to the gastrointestinal tract, including the stomach and intestines, characterized by

nausea, vomiting, diarrhea, abdominal pain, bleeding, and/or tissue ulceration.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Hazardous Components (Chemical Name)	Concentration	
1643-20-5	Dodecyldimethylamine oxide	4.00 - 7.00 %	
1310-73-2	Sodium hydroxide	2.00 - 5.00 %	
1310-58-3	Potassium hydroxide	2.00 - 5.00 %	
7681-52-9	Sodium hypochlorite	2.00 - 5.00 %	

#### 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 attention 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 if irritation develops or persists.

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 attention 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 attention

immediately.

**Note to Physician:** Treat symptomatically and supportively. Show this safety data sheet to the doctor in

attendance.



In-Fact 606

Page: 3 of 7
Printed: 02/04/2020
Revision: 02/04/2020

Supersedes Revision: 02/04/2020

#### 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:Foam, CO2, water fog, sand/earth.

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.

Flammable Properties and

Hazards:

High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, dense irritating smoke, chloride fumes, and oxides of: sulfur, nitrogen, potassium, sodium, Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.

#### 6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures: Use proper personal protective equipment as indicated in Section 8.

Do not let product enter drains, sewers, watersheds or water systems.

**Environmental Precautions:** 

Steps To Be Taken In Case Material Is Released Or

Spilled:

Spills/Leaks: 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). Dike spill. Pick up the bulk of liquid using

flares, sparks or flames in immediate area). Dike spill. Pick up the bulk of liquid using a pump or a vacuum truck, or absorb liquid in sand or a commercial absorbent. Place in suitable container for disposal. Neutralize the hypochlorite or available chlorine with a dilute solution of sodium sulfite or sodium thiosulfate. Neutralize the alkalinity, of the remaining liquid, using a dilute acid solution that is appropriate for neutralizing alkaline liquids. Liberally cover the spill area with sodium bicarbonate. Flush the spill area with

water and collect the rinsates for disposal or sewer, as appropriate.

#### 7. HANDLING AND STORAGE

Precautions To Be Taken in

Handling:

Use as directed. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling. Remove

contaminated clothing and wash before reuse.

Precautions To Be Taken in

Storing:

Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from heat, sparks and flame. Do not store in direct sunlight. Store in a tightly closed

container. Keep container closed when not in use. Protect containers against damage.

Other Precautions: 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
1643-20-5	Dodecyldimethylamine oxide	No data.	No data.	No data.
1310-73-2	Sodium hydroxide	PEL: 2 mg/m3	CEIL: 2 mg/m3	No data.
1310-58-3	Potassium hydroxide	No data.	CEIL: 2 mg/m3	No data.
7681-52-9	Sodium hypochlorite	No data.	No data.	No data.



In-Fact 606

Page: 4 of 7 Printed: 02/04/2020

Revision: 02/04/2020 Supersedes Revision: 02/04/2020

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 goggles unless a full facepiece respirator is worn.

**Protective Gloves:** Wear appropriate gloves to prevent skin exposure. Rubber or neoprene gloves. nitrile

gloves.

**Other Protective Clothing:** Wear appropriate protective clothing to prevent skin exposure. Chemical resistant apron.

Rubber or neoprene boots.

**Engineering Controls** 

(Ventilation etc.):

Ensure adequate ventilation. Local exhaust is suggested for use in enclosed or confined areas. Facilities storing or utilizing this material should be equipped with an eyewash

facility and a safety shower.

Work/Hygienic/Maintenance

Handle in accordance with good industrial hygiene and safety practice.

Practices:

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [ ] Gas [ X ] Liquid [ ] Solid

Appearance and Odor: Appearance: Clear. Pale yellow. Liquid.

Odor: characteristic odor.

pH 11.5 - 12.5 (1% Solution)

**Melting Point:** < 32.0 F (0 C) **Boiling Point:** > 212 F (100 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): ~ 1.079

Density: NA

Bulk density: NA

Vapor Pressure (vs. Air or NA

mm Hg):

Vapor Density (vs. Air = 1): NA Evaporation Rate: NA

Solubility in Water: Complete

Saturated Vapor NA

Concentration:

Viscosity: NA

**pH:** > 13.5 - (neat)

Percent Volatile: ~ 91.0 % by volume.

VOC / Volume: NA

In-Fact 606

Page: 5 of 7

Printed: 02/04/2020 Revision: 02/04/2020

Supersedes Revision: 02/04/2020

NA Particle Size: NA **Heat Value: Corrosion Rate:** NA

10. STABILITY AND REACTIVITY

Reactivity: High temperatures and fire conditions can result in the formation of carbon monoxide

> and carbon dioxide, dense irritating smoke, chloride fumes, and oxides of: sulfur, nitrogen, potassium, sodium, Contact of this product with many "active" metals such as

aluminum, copper and zinc, can cause formation of flammable hydrogen gas.

Unstable [ ] Stable [X] Stability:

**Conditions To Avoid -**

High temperatures, Ignition sources, Incompatible materials.

Instability:

Incompatibility - Materials To Acids, Acidic materials, Oxidizers, Contact of this product with many "active" metals such

Avoid: as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.

Hazardous Decomposition Or High temperatures and fire conditions can result in the formation of carbon monoxide

**Byproducts:** and carbon dioxide, dense irritating smoke, chloride fumes, and oxides of: sulfur,

nitrogen, potassium, sodium.

**Possibility of Hazardous** 

Reactions:

Will occur [ ] Will not occur [X]

Conditions To Avoid -

No data available.

**Hazardous Reactions:** 

#### 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# 1310-58-3:

Acute toxicity, LD50, Oral, Rat, 273 mg/kg

Other Studies: CAS# 1310-73-2

Acute toxicity, LDLO, Oral, Species: Rabbit, 500.0 mg/kg.

Other Studies: CAS# 7681-52-9:

Acute toxicity, LD50, Oral, Mouse, 5800 mg/kg

Other Studies: CAS# 1310-58-3: Irritation or Corrosion:

Standard Draize Test, Skin, Species: Rabbit, 50.0 mg, 24H

Other Studies: CAS# 1310-73-2

Standard Draize Test, Eyes, Species:Rabbit, 400.0 ug.

Other Studies: CAS# 7681-52-9:

Standard Draize Test, Eyes, Species: Rabbit, 1.310 mg, Mild

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No



In-Fact 606

Page: 6 of 7 Printed: 02/04/2020 Revision: 02/04/2020

Supersedes Revision: 02/04/2020

#### 12. ECOLOGICAL INFORMATION

**General Ecological** 

Environmental: No information found.

Information:

Physical: No information found. Other: No information available.

Results of PBT and vPvB

Other Studies: CAS# 1310-58-3:

assessment:

LC50, Western Mosquitofish (Gambina affinis), adult(s), 80000 ug/L, 96H, Mortality

Other Studies: CAS# 1310-73-2:

LC50, Common Shrimp, Sand Shrimp (Crangon crangon), adult(s), 33000 - 100000

ug/L, 48H, Mortality

LC50, Western Mosquitofish (Gambusia affinis), adult(s), 125000 ug/L, 96H, Mortality LC50, Cockle (Cerastoderma edule), adult(s) 330000 - 1000000 ug/L, 48H, Mortality LC50, Guppy (Poecilia reticulata)}, young organism(s), 196.0 mg/L, 96H, Mortality.

Other Studies: CAS# 7681-52-9:

LC50, Rainbow trout (Oncorhynchus mykiss), 59.00 ug/L, 96H, Mortality

LC50, Water Flea (Daphnia magna), 32.00 ug/L, 48H, Mortality

LC50, Bleak (Alburnus alburnus), 30000 - 35000 ug/L, 96H, Mortality

Persistence and

Degradability:

No data available.

**Bioaccumulative Potential:** No data available. **Mobility in Soil:** No data available.

#### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations.

RCRA P-Series: None listed. RCRA U-Series: None listed.

#### 14. TRANSPORT INFORMATION

#### LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide, Sodium Hypochlorite)

**DOT Hazard Class: CORROSIVE** 

**UN/NA Number:** UN3266 **Packing Group:** Ш





In-Fact 606

Page: 7 of 7 Printed: 02/04/2020 Revision: 02/04/2020

Supersedes Revision: 02/04/2020

#### 15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) L
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•	•	,		
CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1643-20-5	Dodecyldimethylamine oxide	No	No	No
1310-73-2	Sodium hydroxide	No	Yes 1000 LB	No
1310-58-3	Potassium hydroxide	No	Yes 1000 LB	No
7681-52-9	Sodium hypochlorite	No	Yes 100 LB	No
CAS#	Hazardous Components (Chemical Name)	Other US EPA or S	State Lists	
1643-20-5	Dodecyldimethylamine oxide	TSCA: Yes - Invent	tory; CA PROP.65: N	o; CA TAC, Title 8: No
1310-73-2	Sodium hydroxide	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8		
	·			
1310-58-3	Potassium hydroxide	TSCA: Yes - Invent	tory; CA PROP.65: N	o; CA TAC, Title 8:
		Title 8		
7681-52-9	Sodium hypochlorite	TSCA: Yes - Invent	tory; CA PROP.65: N	o; CA TAC, Title 8:
	•	Title 8	-	

#### **16. OTHER INFORMATION**

07/17/2014 **Revision Date:** 

Additional Information About No data available.

**This Product:** 

**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.

# In-Fact 606

## (Formerly Chlor-A-Foam 606)

### HIGH FOAM, CHLORINATED ALKALINE CLEANER

#### **DANGER**

Causes severe skin burns and eye damage. Toxic to aquatic life.

**Precautionary Statements:** Do not breathe mist/vapors/spray. Wear protective gloves, protective clothing, eye protection, and face protection. Wash hands thoroughly after handling. Avoid release to the environment.

#### **Response Phrases:**

IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or a doctor.

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

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

**Supplemental Information:** This product may be fatal if swallowed. Take proper precautions, especially when using this product in an enclosed or semi-enclosed area. When entering a tank, even an empty one, follow all appropriate confined entry procedures (ANSI Z117.1).

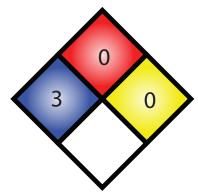
KEEP OUT OF REACH OF CHILDREN.





CONTAINS: POTASSIUM HYDROXIDE, SODIUM HYDROXIDE, LAURYL DIMETHYLAMINE OXIDE, SODIUM HYPOCHLORITE. DO NOT MIX WITH ACIDS - WILL CAUSE HAZARDOUS VAPOR FORMATION.

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:

UN3266,

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, SODIUM HYPOCHLORITE), 8, 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, 2020

Based on current U.S. Food and Drug Administration Guidelines, this Letter of Guarantee certifies that the Shepard Bros., Inc. product, **In-Fact 606**, is safe and suitable as a general cleaning agent on all surfaces or for use with steam or mechanical cleaning devices 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, surfaces 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.



Shepard Bros., Inc. 503 S. Cypress St. La Habra, CA 90631 SHEPARD BROS. (562) 697-1366

### In-Fact 606 **Chlorinated Cleaner Test Kit** SBRTK5000-Z

- 1. Fill test tube (0701) with syringe to 5, 10, or 20 mL line with sample water.
- 2. Add 5 drops of Sodium Thiosulfate (ST2970), and mix.
- 3. Add 3 drops of Phenolphtalein indicator (PH1605), mix (solution will turn pink).
- 4. Add Sulfuric Acid 1.0 N (SA1625) drop-wise while swirling until the sample color turns clear. Count the number of drops. Hold bottle vertically.
- 5. Calculations:

#### If using 5 mL sample multiply:

number of drops x 320 = to obtain ppm active alkalinity as Sodium Hydroxide (by weight)

number of drops x 0.668 = to obtain % product in solution (by volume)

number of drops  $x \cdot 1.0 = to obtain fl-oz product/gallon$ 

number of drops x 6680 to obtain ppm product in solution (by vol)

**Example:** 5.0 fl-oz/gal = 5 drops

6.0 fl-oz/gal = 6 drops

5% product in solution by volume = 8 drops 6% product in solution by volume = 9 drops

#### If using 10 mL sample multiply:

number of drops x 160 = to obtain ppm active alkalinity as Sodium Hydroxide (by weight)

number of drops x = 0.334 = to obtain % product in solution (by volume)

number of drops x = 0.5 = to obtain fl-oz product/gallon

number of drops x 3340 to obtain ppm product in solution (by vol)

**Example:** 2.0 fl-oz/gal = 4 drops

3.0 fl-oz/gal = 6 drops

6.0 fl-oz/gal = 12 drops

2% product in solution by volume = 6 drops

3% product in solution by volume = 9 drops

#### If using 20 mL sample multiply:

number of drops x 80 = to obtain ppm active alkalinity as Sodium Hydroxide (by weight)

number of drops  $x \cdot 0.2 = to obtain \% product in solution (by volume)$ 

number of drops x 0.25 = to obtain fl-oz product/gallon

number of drops x 2000 to obtain ppm product in solution (by vol)

**Example:** 1.0 fl-oz/gal = 4 drops

2.0 fl-oz/gal = 8 drops

1% product in solution by volume = 5 drops

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

Rev 03/20



Shepard Bros., Inc. 503 S. Cypress St. La Habra, CA 90631 SHEPARD BROS. (562) 697-1366

In-Fact 606 **Chlorinated Cleaner Test Kit** SBRTK5050-Z

- 1. Fill test tube (0701) to 10, 20 or 25mL line with sample water.
- 2. Add 3 drops of Phenolphtalein indicator (PH1605), mix (solution will turn pink).
- 3. If sample doesn't turn pink, add 5 drops of Sodium Thiosulfate (ST2970), and additional 3 drops of Phenolpthalein indicator, mix.
- 4. Add Sulfuric Acid 0.5N (SA7590) drop-wise while swirling until the sample color turns clear. Count the number of drops. Hold bottle vertically.
- 5. If using 10 mL sample multiply:

number of drops x 80 = to obtain ppm active alkalinity as Sodium Hydroxide (by weight)

number of drops x = 0.2 = to obtain % product in solution (by volume)

number of drops x 0.25 = to obtain fl-oz product/gallon

number of drops x 2000 to obtain ppm product in solution (by vol)

**Example:** 1.0 fl-oz/gal = 4 drops

2.0 fl-oz/gal = 8 drops

1% product in solution by volume = 5 drops

#### If using 20 mL sample multiply:

number of drops x 40 = to obtain ppm active alkalinity as Sodium Hydroxide (by weight)

number of drops x 0.10 = to obtain % product in solution (by volume)

number of drops x 0.125 = to obtain fl-oz product/gallon

number of drops x 1000 to obtain ppm product in solution (by vol)

**Example:** 1.0 fl-oz/gal = 8 drops

1.0 fl-oz/ 2 gal = 4 drops

1% product in solution by volume = 10 drops

#### If using 25 mL sample multiply:

number of drops x 32 = to obtain ppm active alkalinity as Sodium Hydroxide (by weight)

number of drops x 0.077 = to obtain % product in solution (by volume)

number of drops x = 0.10 = to obtain fl-oz product/gallon

number of drops x 770 to obtain ppm product in solution (by vol)

**Example:** 1.0 fl-oz/gal = 10 drops

1.0 fl-oz/ 2 gal = 5 drops

1% product in solution by volume = 13 drops

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

Rev 03/20