

**SAFETY DATA SHEET**according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Revision Date: 04/15/2015**Section 1 – Identification of the Substance/Mixture and of the Company/Undertaking****1.1 – Product Identifier****Product Form:** Mixture**Product Name:** Fast-1-2-3 EFP Alkaline Detergent**Product Code:** 4450-01**1.2 – Relevant Identified Uses of the Substance or Mixture and Uses Advised Against****Use of the Substance/Mixture:** Cleaning (liquids)**1.3 – Details of the Supplier of the Safety Data Sheet****Sold By:** Gabriel First Corp.**Address:** 233 W. Commercial Street

East Rochester, NY 14445

**Telephone:** 585-381-7000**1.4 – Emergency Telephone Number****Emergency Number:** 800-424-9300**Section 2 – Hazards Identification****2.1 – Classification of the Substance or Mixture****Classification (GHS-US)****Skin Irrit. 2:** H315 - Causes skin irritation**Eye Irrit. 2A:** H319 - Causes serious eye irritation

Full text of H-phrases: see Section 16

**2.2 – Label Elements****GHS-US Labeling****Hazard Pictograms (GHS-US):**

GHS07

**Signal word (GHS-US):**

Warning.

**Hazard Statements (GHS-US):**

H315 - Causes skin irritation

H319 - Causes serious eye irritation.

**Precautionary Statements (GHS-US):**

P264 - Wash hands and forearms thoroughly after handling.

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

P302+P352 - If on skin: Wash with plenty of soap and water.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes.

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

P321 - Specific treatment (see First aid measures on this label).

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

**2.3 – Other Hazards**

No additional information available.

**2.4 – Unknown Acute Toxicity (GHS-US)**

Not applicable.

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### Section 3 – Composition/Information on Ingredients

#### 3.1 – Substance

Not applicable.

#### 3.2 – Mixture

Name	Product Identifier	%	Classification (GHS-US)
Potassium Hydroxide, 45%=<conc<50%, aqueous solutions	(CAS No) 1310-58-3	1 - 5	Acute Tox. 3 (Oral), H301 Skin Corr. 1A, H314

Full text of H-phrases: see Section 16

### Section 4 – First Aid Measures

#### 4.1 – Description of First Aid Measures

<b>First-Aid Measures General:</b>	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
<b>First-Aid Measures After Inhalation:</b>	Allow victim to breathe fresh air. Allow the victim to rest.
<b>First-Aid Measures After Skin Contact:</b>	Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see First Aid measures on this label).
<b>First-Aid Measures After Eye Contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>First-Aid Measures After Ingestion:</b>	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2 – Most Important Symptoms and Effects, Both Acute and Delayed

<b>Symptoms/Injuries After Skin Contact:</b>	Causes skin irritation.
<b>Symptoms/Injuries After Eye Contact:</b>	Causes serious eye irritation.

#### 4.3 – Indication of Any Immediate Medical Attention and Special Treatment Needed

No additional information available.

### Section 5 – Firefighting Measures

#### 5.1 – Extinguishing Media

<b>Suitable Extinguishing Media:</b>	Foam. Dry powder. Carbon Dioxide. Water spray. Sand.
<b>Unsuitable Extinguishing Media:</b>	Do not use a heavy water stream.

#### 5.2 – Special Hazards Arising From the Substance or Mixture

No additional information available.

#### 5.3 – Advice for Firefighters

<b>Firefighting Instructions:</b>	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
<b>Protection During Firefighting:</b>	Do not enter fire area without proper protective equipment, including respiratory protection.

### Section 6 – Accidental Release Measures

#### 6.1 – Personal Precautions, Protective Equipment and Emergency Procedures

<b>6.1.1: For Non-Emergency Personnel Emergency Procedures:</b>	Evacuate unnecessary personnel.
<b>6.1.2: For Emergency Responders Protective Equipment:</b>	Equip cleanup crew with proper protection.
<b>Emergency Procedures:</b>	Ventilate area.

#### 6.2 – Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3 – Methods and Material for Containment and Cleaning Up

<b>Methods for Cleaning Up:</b>	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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### 6.4 – Reference to Other Sections

See Heading 8. Exposure controls and personal protection.

## Section 7 – Handling and Storage

### 7.1 – Precautions for Safe Handling

#### Precautions for Safe Handling:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

#### Hygiene Measures:

Wash hands and forearms thoroughly after handling.

### 7.2 – Conditions for Safe Storage, Including Any Incompatibilities

#### Storage Conditions:

Keep only in the original container in a cool, well ventilated place away from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. Keep container closed when not in use.

#### Incompatible Products:

Strong bases. Strong acids.

#### Incompatible Materials:

Sources of ignition. Direct sunlight.

## Section 8 – Exposure Controls/Personal Protection

### 8.1 – Control Parameters

#### Potassium Hydroxide, 45%=<conc<50%, aqueous solutions (1310-58-3)

ACGIH	Remark (ACGIH)	URT, eye, & skin irr

### 8.2 – Exposure Controls

#### Personal Protective Equipment:

Avoid all unnecessary exposure.

#### Hand Protection:

Wear protective gloves/eye protection/face protection.

#### Eye Protection:

Chemical goggles or safety glasses.

#### Skin and Body Protection:

Wear suitable protective clothing.

#### Respiratory Protection:

Wear appropriate mask.

#### Other Information:

Do not eat, drink or smoke during use.

## Section 9 – Physical and Chemical Properties

### 9.1 – Information on Basic Physical and Chemical Properties

#### Physical State:

Liquid

#### Color:

Yellow clear

#### Odor:

Mild

#### Odor Threshold:

No data available

#### pH:

11.4

#### Melting Point:

No data available

#### Freezing Point:

No data available

#### Boiling Point:

212 - 220 °F

#### Flash Point:

200 °F

#### Relative Evaporation Rate (Butyl Acetate=1):

No data available

#### Flammability (Solid, Gas):

No data available

#### Explosion Limits:

No data available

#### Explosive Properties:

No data available

#### Oxidizing Properties:

No data available

#### Vapor Pressure:

No data available

#### Relative Density:

1.06

#### Relative Vapor Density at 20 °C:

Same as water

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<b>Solubility:</b>	Soluble in water. Water: Solubility in water of component(s) of the mixture : •: •: 9 % •:
<b>Log Pow</b>	No data available
<b>Auto-ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Viscosity, Kinematic</b>	No data available
<b>Viscosity, Dynamic:</b>	No data available

### 9.2 – Other Information

No additional information available.

## Section 10 – Stability and Reactivity

### 10.1 – Reactivity

No additional information available.

### 10.2 – Chemical Stability

Stable under normal conditions.

### 10.3 – Possibility of Hazardous Reactions

Not established.

### 10.4 – Conditions to Avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5 – Incompatible Materials

Strong acids. Strong bases.

### 10.6 – Hazardous Decomposition Products

Fume. Carbon Monoxide. Carbon Dioxide.

## Section 11 – Toxicological Information

### 11.1 – Information on Toxicological Effects

**Acute Toxicity:** Not classified

Potassium Hydroxide, 45%=<conc<50%, aqueous solutions (1310-58-3)	
LD50 oral rat	273 mg/kg (Rat)
ATE US (oral)	273.000 mg/kg body weight

<b>Skin Corrosion/Irritation:</b>	Causes skin irritation. pH: 11.4
<b>Serious Eye Damage/Irritation:</b>	Causes serious eye irritation. pH: 11.4
<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified
<b>Carcinogenicity</b>	Not classified
<b>Reproductive Toxicity:</b>	Not classified
<b>Specific Target Organ Toxicity (single exposure):</b>	Not classified
<b>Specific Target Organ Toxicity (repeated exposure):</b>	Not classified
<b>Aspiration Hazard:</b>	Not classified
<b>Potential Adverse Human Health Effects and Symptoms:</b>	Based on available data, the classification criteria are not met.
<b>Symptoms/Injuries after Skin Contact:</b>	Causes skin irritation.
<b>Symptoms/Injuries after Eye Contact:</b>	Causes serious eye irritation.

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### Section 12 – Ecological Information

#### 12.1 – Toxicity

Potassium Hydroxide, 45%=<conc<50%, aqueous solutions (1310-58-3)	
LC50 fish 2	80 mg/l (LC50; 96 h)

#### 12.2 – Persistence and Degradability

Fast-1-2-3 EFP	
Persistence and degradability	Not established.

Potassium Hydroxide, 45%=<conc<50%, aqueous solutions (1310-58-3)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

#### 12.3 – Bioaccumulative Potential

Fast-1-2-3 EFP	
Bioaccumulative potential	Not established.

Potassium Hydroxide, 45%=<conc<50%, aqueous solutions (1310-58-3)	
Bioaccumulative potential	Not bioaccumulative.

#### 12.4 – Mobility in Soil

No additional information available

#### 12.5 – Other Adverse Effects

**Effect On The Global Warming:** No known ecological damage caused by this product.  
**Other Information:** Avoid release to the environment.

### Section 13 – Disposal Considerations

#### 13.1 – Waste Treatment Methods

**Waste Disposal Recommendations:** Dispose in a safe manner in accordance with local/national regulations.  
**Ecology - Waste Materials:** Avoid release to the environment.

### Section 14 – Transport Information

#### Department of Transportation (DOT)

**In Accordance With DOT:** Not regulated for transport.  
**TDG:** No additional information available.  
**Transport by Sea:** No additional information available.  
**Air Transport:** No additional information available.

### Section 15 – Regulatory Information

#### 15.1 – US Federal Regulations

Potassium Hydroxide, 45%=<conc<50%, aqueous solutions (1310-58-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Not listed on the United States SARA Section 313	
RQ (Reportable quantity, Section 304 of EPA's List of Lists)	1000 lb

#### 15.2 – International Regulations

**CANADA**  
 No additional information available.



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**EU-Regulations**

No additional information available.

**National Regulations**

No additional information available.

**15.3 – US State Regulations**

No additional information available.

**Section 16 – Other Information**

**Revision Date:** 04/15/2015

**Other Information:** None.

**Full Text of H-phrases:**

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
H301	Toxic if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation

**HMIS III Rating**

**Health:** 1 - Slight Hazard - Irritation or minor reversible injury possible

**Flammability:** 0 - Minimal Hazard - Materials that will not burn

**Physical:** 0 - Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

**Personal Protection:** B  
B – Safety glasses, Gloves

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product