

Issue Date 12-2-2014

Revision Date 1-14-2015

Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

Product Name Free-Flo Professional Strength Drain Opener

### Other Means of Identification

Product Code 80-4200QT

### Recommended Use of the Chemical and Restrictions on Use

Recommended Use

Drain Opener

### Details of the Supplier of the Safety Data Sheet

#### Supplier Address

Kimball Midwest  
4800 Roberts Road  
Columbus, OH 43228

### Emergency Telephone Number

Company Phone Number 1-800-233-1294

Emergency Telephone 1-800-424-9300 (Chemtrec)

## 2. HAZARDS IDENTIFICATION

### GHS Classification

Skin Corrosion/Irritation: Category 1A

Eye Damage/Irritation: Category 1

Corrosive to Metals: Category 1

Acute Toxicity - Oral: Category 4

### Signal Word

DANGER

### Symbols



### Emergency Overview:

Physical State: Liquid

Color: Red

Odor: Characteristic

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

**Hazard Statements**

CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.  
HARMFUL IF SWALLOWED.  
MAY BE CORROSIVE TO METALS.

**Precautionary Statements-Prevention**

Wash face, hands and any exposed skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Do not breathe dusts or mists.  
Keep only in original container.

**Precautionary Statements – Response**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).  
Wash contaminated clothing before reuse.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Immediately call a poison center or doctor.  
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 or doctor.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a poison center or doctor if you feel unwell.  
Absorb spillage to prevent material damage.

**Precautionary Statements – Storage**

Store locked up.  
Store in corrosive resistant container with resistant inner liner.

**Precautionary Statements – Disposal**

Dispose of contents/container to an approved waste disposal plant.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
Sodium Hydroxide	1310-73-2	40-45
Potassium Hydroxide	1310-58-3	12.36

**4. FIRST AID MEASURES****First Aid Measures****Eye Contact**

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 or doctor.

**Skin Contact**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower). Wash contaminated clothing before reuse.

<b>Inhalation</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor.
<b>Ingestion</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a poison center or doctor if you feel unwell.

#### **Most Important Symptoms and Effects, both Acute and Delayed**

<b>Symptoms</b>	Direct contact with eyes causes serious damage. Substance causes skin burns. Harmful if swallowed.
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#### **Indication of any Immediate Medical Attention and Special Treatment Needed**

<b>Note to Physicians</b>	Treat symptomatically.
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### **5. FIRE-FIGHTING MEASURES**

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

None

#### **Specific Hazards Arising from the Chemical**

Dried product is capable of burning. Combustion products are toxic.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### **6. ACCIDENTAL RELEASE MEASURES**

#### **Personal Precautions, Protective Equipment and Emergency Procedures**

<b>Personal Precautions</b>	Use personal protective equipment as required. Isolate area. Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.
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#### **Methods and Material for Containment and Cleaning Up**

<b>Methods for Containment</b>	For small spills, absorb on poly-pads or other suitable non-reactive absorbent material. Prevent further leakage or spillage if safe to do so.
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<b>Methods for Cleaning Up</b>	Sweep up and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.
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### **7. HANDLING AND STORAGE**

#### **Precautions for Safe Handling**

<b>Advice on Safe Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist.
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**Conditions for Safe Storage, Including any Incompatibilities****Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

**Incompatible Materials**

Strong acids.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines**

Chemical Name	ACHIH TLV	OSHA PEL	NIOSH IDLH
Potassium Hydroxide 1310-58-3	2 mg/m3	2mg/m3	2mg/m3
Sodium Hydroxide 1310-73-2	2 mg/m3 C	2 mg/m3	2 mg/m3

**Recommended monitoring procedures:** If this product contains ingredients with exposure limits, personal, workplace atmosphere or other biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Appropriate Engineering Controls:** Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Hygiene measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and the using the bathroom and at the end of the working periods.

**Individual Protection Measures, such as Personal Protective Equipment****Eye/Face Protection**

Avoid contact with eyes. Wear safety eyewear.

**Skin and Body Protection**

Wear suitable protective clothing. Use impervious gloves.

**Respiratory Protection**

Not required with expected use. Ensure adequate ventilation, especially in confined areas.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on Basic Physical and Chemical Properties**

Physical State	Liquid	Odor	Characteristic
Appearance	Clear Liquid	Odor Threshold	Not determined
Color	Red		

**Property****Values**

pH	14
Melting Point/Freezing Point	Not determined
Boiling Point/Boiling Range	212 Deg F
Flash Point	n/a (tcp)
Evaporation Rate	(H20=1) =1
Flammability (Solid, Gas)	n/a-liquid
Upper Flammability Limits	UEL=n/a
Lower Flammability Limits	LEL=n/a
Vapor Pressure	20@68F
Vapor Density	Not determined
Specific Gravity	1.513

Water Solubility	Soluble in water
Solubility in Other Solvents	Not determined
Partition Coefficient	Not determined
Autoignition Temperature	Not determined
Decomposition Temperature Kinematic	Not determined
Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties Oxidizing	Not determined
Properties	Not determined

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

### Conditions to Avoid

Keep out of reach of children.

### Incompatible Materials

Strong acids

### Hazardous Decomposition Products

Alkaline vapors in a fire.

## 11. TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### **Product Information**

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns.

**Inhalation** Irritating to the mucus membranes of the respiratory tract. Nasal discomfort and coughing.

**Ingestion** Harmful if swallowed.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium Hydroxide 1310-58-3	273 mg/kg (rat)	Data not available	Data not available
Sodium Hydroxide 1310-73-2	Data not available	>1,350 mg/kg	Data not available

## **Information on Physical, Chemical and Toxicological Effects**

### **Symptoms**

Please see section 4 of this SDS for symptoms.

## **Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure**

### **Carcinogenicity**

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

## **Numerical Measures of Toxicity**

ATEmix-oral: 1,252 mg/kg

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Material may be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

<b>Chemical Name</b>	<b>Algae/aquatic plants</b>	<b>Fish</b>	<b>Toxicity to microorganisms</b>	<b>Crustacea</b>
Potassium Hydroxide 1310-58-3	Data not available	Data not available	Data not available	Data not available
Sodium Hydroxide 1310-73-2	Data not available	45.4: 96h Oncorhynchus	Data not available	Data not available

### **Persistence and Degradability**

Not determined

### **Bioaccumulation**

Not expected to bioaccumulate significantly.

### **Other Adverse Effects**

Not determined

## **13. DISPOSAL CONSIDERATIONS**

### **Waste Treatment Methods**

#### **Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

## **14. TRANSPORT INFORMATION**

**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

UN 3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.(POTASSIUM HYDROXIDE,

SODIUM HYDROXIDE), 8, II

**IATA**

Not available.

**IMDG**

Not available.

**IDG**

Not regulated.

**15. REGULATORY INFORMATION****International Inventories**

Not determined

**US Federal Regulations**

**SARA 313** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS No	Weight-%
None		

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium Hydroxide	X	X	X
Sodium Hydroxide	X	X	X

**California Prop 65:** This product contains no chemicals known to the State of California to cause cancer and reproductive toxicity.

**16. OTHER INFORMATION****NFPA****Health Hazards**

Not determined

**Flammability**

Not determined

**Instability**

Not determined

**Special Hazards**

Not determined

**HMIS****Health Hazards**

3

**Flammability**

0

**Physical Hazards**

0

**Personal Protection**

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January-14-2015

Revision Note

change

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**