

Enviro Tech Chemical Services, Inc. 500 Winmoore Way Modesto, CA 95358

# SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION

**Product Identifier:** FORCE K-22**Product Code:** 513**Product Use:** Alkaline Cleaner.

**Enviro Tech Chemical Services, Inc.**  
500 Winmoore Way Modesto, CA 95358  
(209) 581-9576 (7 AM to 5 PM, PST, Monday to Friday)

**24 Hr. Emergency Tel.#:** 800-424-9300

## SECTION 2 - HAZARDS IDENTIFICATION

**Classification of the Substance or Mixture:**

Skin Corrosion - Category 1  
Serious Eye Damage - Category 1  
Corrosive to Metals - Category 1  
Acute Toxicity - Oral Category 4  
Acute Toxicity - Dermal Category 5

**Signal Word:** DANGER**Hazard Statements:**

Causes severe skin burns and eye damage  
May be corrosive to metals  
Harmful if swallowed  
May be harmful in contact with skin

**Precautionary Statements:****Prevention**

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

**Response****IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.**IF SWALLOWED:** Immediately call a POISON CENTER or doctor/physician.**IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.**IF ON SKIN:** Wash with soap and water.**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

**Storage**

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

**Disposal**

Dispose of contents/container in accordance with local regulations.

**Hazards not Otherwise Classified:**

No other hazards classified.

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### SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Synonym	CAS Number	Concentration
SODIUM HYDROXIDE	CAUSTIC SODA	1310-73-2	14-16%
SODIUM HYPOCHLORITE	N/A	7681-52-9	2-3%

### SECTION 4 - FIRST-AID MEASURES

**Inhalation:** Get medical advice/attention if you feel unwell or are concerned.

**Skin Contact:** Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with lukewarm, gently flowing water/shower with a flushing duration of 60 minutes. Immediately call POISON CENTER/doctor. Wash contaminated clothing before re-use.

**Eye Contact:** Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 60 minutes. Take care not to rinse contaminated water into the unaffected eye or into the face. Immediately call a POISON CENTER/doctor. Continue rinsing until medical aid is available.

**Ingestion:** Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position.

**Most Important Symptoms and Effects, both Acute and Delayed:** Causes severe skin burns and eye damage, burning of the mouth, throat, and esophagus.

**Indication of any Immediate Medical Attention and Special Treatment Needed:** Treat symptomatically

### SECTION 5 - FIRE-FIGHTING MEASURES

**Extinguishing Media:** Use water spray, powder, foam, carbon dioxide.

**Special hazards arising from the substance or mixture:** Hot or molten material can react violently with water. Can react with certain metals, such as aluminum, to generate flammable Hydrogen gas.

**Flammability classification (OSHA 29 CFR 1910.106) (Hazcom 2012):** Non flammable

**Hazardous Combustion Products:** May cause fire and explosions when in contact with incompatible materials.

**Special protective equipment and precautions for firefighters:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

**Methods and materials for containment and cleaning up:** SMALL SPILLS (less than 1 gallon): Dike small spills with inert material (sand, earth, etc.). Collect in plastic containers only. Wash area and let dry. LARGE SPILL: Should be diked with sand ahead of spill. Collect in plastic containers only. Ensure adequate decontamination of tools and equipment following clean up.

**Special spill response procedures:** Collect spills in plastic containers only

### SECTION 7 - HANDLING AND STORAGE

**Precautions for Safe Handling:** Wear at least chemical resistant gloves and eye protection, face shield, and chemical resistant garments when handling, moving or using this product. Do not contaminate water, food, or feed by storage or disposal.

**Conditions for Safe Storage:** Keep product in tightly closed container when not in use. Do not drop, roll, or skid drum. Store in a cool, dry, well-ventilated area away from heat or open flame.

**Incompatible Materials:** Avoid acids and/or strong oxidizers when using or storing this product.

### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Identity	CAS Number	Type	Exposure Limit Values	Source
SODIUM HYDROXIDE	1310-73-2	PEL	2 mg/m3	OSHA
		REL	2 mg/m3	NIOSH
		TLV	2 mg/m3	ACGIH

**Ventilation and engineering measures:** Forced air, local exhaust, or open air is adequate.

**Respiratory Protection:** In case of confined spaces or high levels encountered in the air, wear self contained breathing apparatus.

**Skin Protection:** Wear chemical resistant gloves and chemical resistant garments when handling, wash garments before re-use.

**Eye/Face Protection:** Wear safety glasses, goggles and/or face shield to prevent eye contact.

**Other Protective Equipment:** Eye wash facility and emergency shower should be in close proximity.

**General Hygiene Conditions:** Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industry hygiene and safety practice.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Pale yellow liquid  
**Odor:** Bleach odor  
**pH:** >10  
**Initial boiling point and boiling range:** 228° F/109° C  
**Flammability (solid, gas):** Non flammable  
**Specific gravity:** 1.20 g/mL  
**Solubility in water:** Complete  
**Decomposition temperature:** Above 230°F/ 110 °C  
**Viscosity:** 10-25 cSt at 68°F/ 20°C

## SECTION 10 - STABILITY AND REACTIVITY

**Reactivity:** Higher temperatures will lead to faster decomposition. Oxidizing agents, reducing agents, metals, acids and alkalis.  
**Chemical Stability:** Stable under normal conditions  
**Possibility of Hazardous Reactions:** Reactive with oxidizing agents, reducing agents, metals, acids and alkalis. Incompatible with acids and strong oxidizers, may emit chlorine gas and hydrogen chloride.  
**Conditions to Avoid:** Incompatible materials and high temperatures  
**Incompatible Materials:** Alkalis, oxidizing agents, metals, acids and organic materials.  
**Hazardous Decomposition Products:** Chlorine gas and hydrogen chloride.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

Routes of entry - inhalation: YES  
Routes of entry - skin & eye: YES  
Routes of entry - ingestion: YES  
Routes of entry - skin absorption: NO

### Potential Health Effects:

#### **Signs and symptoms of short term (acute) exposure:**

**Inhalation:** Inhalation of the mist may produce severe irritation of respiratory tract, characterized by coughing, choking, shortness of breath, headaches, dizziness, nausea, weakness and/or drowsiness.  
**Ingestion:** Corrosive! Swallowing causes severe burns of mouth, throat, and stomach. Severe scarring of tissue, corrosion, permanent tissue destruction and death may result. Symptoms may include severe pain, nausea, vomiting, diarrhea, shock, hemorrhaging and/or fall in blood pressure. Damage may appear days after exposure.  
**Skin:** Corrosive! Contact with skin causes irritation or severe burns and scarring with greater exposures.  
**Eye:** Corrosive! Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision, even blindness.

### Potential Chronic Health Effects:

**Mutagenicity:** May have mutagenic effects in humans or animals.  
**Carcinogenicity:** No components are listed as carcinogens by ACGIH, IARC, OSHA, or NTP.  
**Reproductive effects:** No known reproductive effects in humans or animals.  
**Sensitization to material:** Severe allergic reactions may occur in sensitized individuals.

### **Toxicological data:** The calculated ATE values for this mixture are:

ATE oral = 1464 mg/kg (rat)  
ATE dermal = 3952 mg/kg (rabbit)  
ATE inhalation = No information available.

## SECTION 12 - ECOLOGICAL INFORMATION

**Ecotoxicity:** May be harmful to aquatic environment.  
**Persistence and degradability:** Not expected to persist. Readily biodegradable.

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**Bioaccumulation potential:** Not expected to bioaccumulate.

**Mobility in soil:** No information available

**Other Adverse Environmental effects:** No information available

### SECTION 13 - DISPOSAL CONSIDERATIONS

**Handling for disposal:** Do not contaminate water, food, or feed by storage and/or disposal. When handling refer to protective measures listed in sections 7 and 8. Empty residue from containers, rinse container well.

**Method of disposal:** Dispose of in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

**RCRA:** If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA, because of: Corrosivity D002

### SECTION 14 - TRANSPORTATION INFORMATION

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Please note the GHS and DOT Standards are NOT identical and therefore can have varying classifications

**US 49 CFR/DOT/IATA/IMDG Information:**

UN No.: 1760

UN Proper Shipping Name: Corrosive liquid, n.o.s. (Sodium hydroxide)

Transportation hazard class(es): 8

Packing Group: III

**Environmental hazards:** Not a Marine Pollutant

### SECTION 15 - REGULATORY INFORMATION

**US Federal Information:**

**TSCA information:** Sodium Hydroxide is listed on the TSCA inventory.

**US CERCLA Reportable quantity (RQ):** Sodium hypochlorite has a RQ of 100 lbs of pure chemical. Sodium hydroxide has a RQ of 1000 lbs of pure chemical.

**SARA Title III:** Acute Health Hazard

### SECTION 16 - OTHER INFORMATION

**Legend:**

**SARA:** The Superfund Amendments and Reauthorization Act

**RCRA:** Resource Conservation and Recovery Act

**TSCA:** Toxic Substances Control Act

**CFR:** Code of Federal Regulations

**DOT:** Department of Transportation

**ATE:** Acute Toxicity Estimate

**Preparation date:** 9/16/2016