

# SAFETY DATA SHEET

Date Prepared : 11/20/2014

SDS No : FOR

Force

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Force

**GENERAL USE:** Clear and maintain all sink drains.

**PRODUCT DESCRIPTION:** Non Acid Drain Opener

**PRODUCT CODE:** FOR

**CHEMICAL FAMILY:** Alkali/detergent blend

### MANUFACTURER

MISCO Products Corporation

1048 Stinson Drive

Reading, PA 19605

**Emergency Phone:** 610-926-4106

**Customer Service:** 800-548-4568

**Transportation:** 800-548-4568

### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEM-TEL (Medical and Transportation):** 800-255-3924

**POISON CONTROL CENTER (Medical):** 800-222-1222

## 2. HAZARDS IDENTIFICATION

### GHS CLASSIFICATIONS

#### Health:

Skin Corrosion, Category 1B

Eye Corrosion, Category 1

Acute Toxicity (Oral), Category 4

#### Physical:

Corrosive to Metals, Category 1

### GHS LABEL



Corrosion



Exclamation  
mark

**SIGNAL WORD:** DANGER

### HAZARD STATEMENTS

H314: Causes severe skin burns and eye damage.

H302: Harmful if swallowed.

H290: May be corrosive to metals.

### PRECAUTIONARY STATEMENT(S)

#### Prevention:

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

P260: Do not breathe fumes, gas, mist, vapors or spray.

P270: Do not eat, drink or smoke when using this product.

P264: Wash hands thoroughly after handling.

P102: Keep out of reach of children.

#### Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P363: Wash contaminated clothing before reuse.  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P310: Immediately call a POISON CENTER or doctor/physician.

**Storage:**

P405: Store locked up.

**Disposal:**

P501: Dispose of contents/container according to all local, state and Federal regulations.

**EMERGENCY OVERVIEW**

**PHYSICAL APPEARANCE:** Blue opaque liquid

**IMMEDIATE CONCERNS:** Causes irreversible eye damage and skin burns.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Corrosive, contact causes severe eye burns.

**SKIN:** Contact causes severe skin irritation and possible burns.

**SKIN ABSORPTION:** Harmful if absorbed through skin.

**INGESTION:** Harmful if swallowed.

**REPRODUCTIVE TOXICITY**

**TERATOGENIC EFFECTS:** None known.

**CARCINOGENICITY:** None known.

**MUTAGENICITY:** None known.

**ROUTES OF ENTRY:** Eye, skin, ingestion.

**CANCER STATEMENT:** NA = Not Applicable

**WARNING CAUTION LABELS:** Corrosive

**PHYSICAL HAZARDS:** None Expected.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

| Chemical Name       | Wt.%    | CAS       |
|---------------------|---------|-----------|
| Sodium Hydroxide    | 10 - 15 | 1310-73-2 |
| Sodium Hypochlorite | < 1     | 7681-52-9 |
| Water               | 85 - 9  | 7732-18-5 |

**4. FIRST AID MEASURES**

**EYES:** Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention immediately.

**SKIN:** Remove contaminated clothing. Immediately flush with water followed by washing with mild soap. Seek medical attention.

**INGESTION:** Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

**INHALATION:** Remove victim to fresh air and monitor. Seek medical advise if irritation persists.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** Severe burning sensation, damage marked by burns.

**SKIN:** Burning sensation, redness, swelling and possible blistering.

**SKIN ABSORPTION:** None Expected.

**INGESTION:** Irritation of mouth, throat, along with stomach upset, vomiting.

**INHALATION:** Irritation of nose, throat and lungs with coughing, sneezing, possible difficulty breathing.

**ACUTE TOXICITY:** Corrosive to eyes. Causes moderate to severe skin irritation. Harmful if swallowed.

**NOTES TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

## 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** None

**EXTINGUISHING MEDIA:** Not required.

**EXPLOSION HAZARDS:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** None Expected.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Avoid runoff into storm sewers and ditches which lead to waterways.

**LARGE SPILL:** Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Avoid discharges into open waterways.

**LAND SPILL:** Avoid discharge to soil.

**AIR SPILL:** NA = Not Applicable

**GENERAL PROCEDURES:** Isolate spill or leak area immediately. Keep unauthorized personnel away. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, or confined areas. Absorb with dry earth, sand or other non-combustible material and transfer to containers.

**RELEASE NOTES:** Product is harmful to aquatic life.

**SPECIAL PROTECTIVE EQUIPMENT:** Eye protection, rubber gloves, rubber boots to protect feet.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Do not contaminate water, food, or feed by storage or disposal.

**HANDLING:** Wear chemical resistant rubber or neoprene gloves and eye safety goggles/full face shield when handling.

**STORAGE:** Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store product away from food and water sources. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

**STORAGE TEMPERATURE:** Store at ambient temperatures.

**STORAGE PRESSURE:** Store at ambient atmospheric pressure.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

| OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200) |      |                 |                     |           |                     |              |                     |
|---|------|-----------------|---------------------|-----------|---------------------|--------------|---------------------|
| Chemical Name                               |      | EXPOSURE LIMITS |                     |           |                     |              |                     |
|   |      | OSHA PEL        |                     | ACGIH TLV |                     | Supplier OEL |                     |
|   |      | ppm             | mg/m <sup>3</sup>   | ppm       | mg/m <sup>3</sup>   | ppm          | mg/m <sup>3</sup>   |
| Sodium Hydroxide                            | TWA  |                 | 2 mg/m <sup>3</sup> |           | 2 mg/m <sup>3</sup> |              |                     |
| Sodium Hypochlorite                         | TWA  |                 | 2 mg/m <sup>3</sup> |           | 2 mg/m <sup>3</sup> |              |                     |
|   | STEL |                 |                     |           |                     |              | 2 mg/m <sup>3</sup> |

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Chemical splash goggles.

**SKIN:** Rubber or other chemical resistant gloves.

**RESPIRATORY:** A respirator is not needed under normal and intended conditions of product use.

**WORK HYGIENIC PRACTICES:** Wash with soap and water after handling. Do not eat, drink or smoke while using product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Characteristic.  
**ODOR THRESHOLD:** Not Established  
**COLOR:** Water Clear  
**pH:** > 13.5  
**PERCENT VOLATILE:** >80  
**FLASH POINT AND METHOD:** None  
**FLAMMABLE LIMITS:** N/A  
**AUTOIGNITION TEMPERATURE:** NA = Not Applicable  
**VAPOR PRESSURE:** 20 mm Hg at (68°F)  
**VAPOR DENSITY:** > 1 Air = 1  
**BOILING POINT:** 212° F; 100° C  
**FREEZING POINT:** 32° F; 0° C  
**THERMAL DECOMPOSITION:** Not Available  
**SOLUBILITY IN WATER:** Complete  
**EVAPORATION RATE:** (Water =1) 1.0  
**DENSITY:** 9.13 at (20°F)  
**SPECIFIC GRAVITY:** 1.094 grams/ml. at (20°F)  
**VISCOSITY:** Water thin.  
**(VOC):** None

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** Stable  
**HAZARDOUS POLYMERIZATION:** Will not occur.  
**CONDITIONS TO AVOID:** Reacts violently with strong acids.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.  
**INCOMPATIBLE MATERIALS:** Strong acids, oxidizers.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

| Chemical Name       | ORAL LD <sub>50</sub><br>(rat) | DERMAL LD <sub>50</sub><br>(rabbit) |
|---------------------|--------------------------------|-------------------------------------|
| Sodium Hydroxide    | 300 to 500<br>mg/kg (rat)      | > 2000 mg/kg<br>(rabbit)            |
| Sodium Hypochlorite | 3000 to 5000<br>mg/kg (rat)    | > 2000 mg/kg<br>(rabbit)            |

**EYES:** Not Established  
**DERMAL LD<sub>50</sub>:** Not Established  
**ORAL LD<sub>50</sub>:** Not Established  
**EYE EFFECTS:** Corrosive to eyes. Permanent damage may occur.  
**SKIN EFFECTS:** Corrosive to skin.  
**CARCINOGENICITY**  
**IARC:** Not Established  
**CORROSIVITY:** Corrosive  
**GENETIC EFFECTS:** No known significant effects or critical hazards.

**REPRODUCTIVE EFFECTS:** No known significant effects or critical hazards.

**TARGET ORGANS:** No known significant effects or critical hazards.

**TERATOGENIC EFFECTS:** No known significant effects or critical hazards.

**MUTAGENICITY:** No known significant effects or critical hazards.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Not Established

**ECOTOXICOLOGICAL INFORMATION:** This material may be toxic to aquatic life.

**AQUATIC TOXICITY (ACUTE):** Not Established

**CHEMICAL FATE INFORMATION:** Not Established

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. If discarded, this material and its containers should be treated as hazardous waste based on the characteristics of corrosivity as defined under federal RCRA regulations (40 CFR 261). Consult local authorities for disposal into public sewer.

**FOR LARGE SPILLS:** Consult with local and state authorities for large volume disposal.

**EMPTY CONTAINER:** Rinse container with clear water. Offer container for recycling, or dispose of in trash.

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Compound, Cleaning Liquid

**TECHNICAL NAME:** Sodium Hydroxide Solution

**PRIMARY HAZARD CLASS/DIVISION:** 8

**UN/NA NUMBER:** 1760

**PACKING GROUP:** III

**PLACARDS:** Corrosive

**LABEL:** Certain package sizes determine the proper labeling of containers. Consult manufacturer for specific information regarding proper labeling.

**OTHER SHIPPING INFORMATION:** Certain shipping modes and packaging sizes may have exceptions from the transport regulations. The classifications/information provided above may not reflect applicable exceptions. Contact the manufacturer for more specific information on the proper shipping of this material.

**U.S. CUSTOMS HARMONIZATION NUMBER:** 3808.94.0000

### AIR (ICAO/IATA)

**SHIPPING NAME:** Contact manufacturer for more information.

### VESSEL (IMO/IMDG)

**SHIPPING NAME:** Contact manufacturer for more information.

## 15. REGULATORY INFORMATION

### UNITED STATES

#### DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Corrosive



Limited  
Quantity  
Ground

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HAZARD CATEGORIES:** Health - Acute

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** Yes **ACUTE:** Yes **CHRONIC:** No

**313 REPORTABLE INGREDIENTS:** No listed substance

**302/304 EMERGENCY PLANNING**

**EMERGENCY PLAN:** No listed substance

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

| Chemical Name       | Wt.%    | CERCLA RQ  |
|---------------------|---------|------------|
| Sodium Hydroxide    | 10 - 15 | 1,000 lbs. |
| Sodium Hypochlorite | < 1     | 100 lbs.   |

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA REGULATORY:** All ingredients are listed on the TSCA Chemical Inventory.

**STATES WITH SPECIAL REQUIREMENTS**

| Chemical Name       | Requirements  |
|---------------------|---|
| Sodium Hydroxide    | Massachusetts Right to Know Substance<br>New Jersey Right To Know Substance<br>Pennsylvania Right to Know Substance<br>Rhode Island Right to Know Substance |
| Sodium Hypochlorite | Massachusetts Right to Know Substance<br>New Jersey Right To Know Substance<br>Pennsylvania Right to Know Substance<br>Rhode Island Right to Know Substance |

**CALIFORNIA PROPOSITION 65:** No listed substance

**CARCINOGEN:** NA = Not Applicable

**FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):** NA = Not Applicable

**16. OTHER INFORMATION**

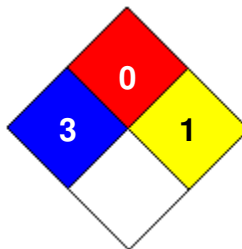
**PREPARED BY:** Regulatory Affairs Department

**Date Prepared:** 11/20/2014

**HMIS RATING**

|                            |                          |          |
|----------------------------|--------------------------|----------|
| <b>HEALTH</b>              | <input type="checkbox"/> | <b>3</b> |
| <b>FLAMMABILITY</b>        | <input type="checkbox"/> | <b>0</b> |
| <b>PHYSICAL HAZARD</b>     | <input type="checkbox"/> | <b>1</b> |
| <b>PERSONAL PROTECTION</b> | <input type="checkbox"/> | <b>D</b> |

**NFPA CODES**



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