



# SAFETY DATA SHEET

Revision Date 01/30/2015

REVISION NUMBER: 2

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product name FW-75

### Other means of identification

Product code 118992

UN/ID No. 3266

Synonyms NONE

### Recommended use of the chemical and restrictions on use

Recommended Use No information available.

Uses advised against No information available

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Rochester Midland Corporation  
155 Paragon Drive  
Rochester, New York 14624 USA

### Emergency telephone number

**EMERGENCY TELEPHONE** INFOTRAC: 1-800-535-5053  
OUTSIDE U.S.: +1-352-323-3500

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                   |            |
|-----------------------------------|------------|
| Skin corrosion/irritation         | Category 1 |
| Serious eye damage/eye irritation | Category 1 |
| Corrosive to metals               | Category 1 |

### Label elements

#### **Emergency Overview**

**DANGER**

#### **Hazard statements**

Causes severe skin burns and eye damage

May be corrosive to metals



**Appearance** Clear Pale yellow liquid

**Physical state** Liquid

**Odor** Slight chlorine

**Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Keep only in original container

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician  
 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/physician  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Immediately call a POISON CENTER or doctor/physician  
 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting  
 Absorb spillage to prevent material damage

**Precautionary Statements - Storage**

Store locked up  
 Store in corrosive resistant container

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

No information available

**Other Information**

- Very toxic to aquatic life with long lasting effects
- Very toxic to aquatic life

**Unknown Acute Toxicity** 2.55% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| PRODUCT COMPOSITION<br>CAS# | CAS No.   | %       | TRADE SECRET |
|-----------------------------|-----------|---------|--------------|
| POTASSIUM HYDROXIDE         | 1310-58-3 | 10 max. | *            |
| Sodium hypochlorite         | 7681-52-9 | 3.8     | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**First aid measures**

|                       |  |
|-----------------------|--|
| <b>General advice</b> | Immediately call a POISON CENTER or doctor/physician.  |
| <b>Eye contact</b>    | 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/physician. |
| <b>Skin contact</b>   | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.                                    |
| <b>Inhalation</b>     | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.                                 |
| <b>Ingestion</b>      | IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.   |

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Water. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Caution: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

No information available.

**Explosion data**

**Sensitivity to Mechanical Impact** NONE.

**Sensitivity to Static Discharge** NONE.

**Protective equipment and precautions for firefighters**

CORROSIVE MATERIAL. Avoid exposure to mist and splashes. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Cool exposed containers with water spray.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation, especially in confined areas.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. Flush residue with water.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Advice on safe handling** DANGER: Concentrated, alkaline liquid. Avoid contact with skin, eyes or clothing. Do not breathe mist or vapors. Read and follow label instructions.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Store only in original container and keep closed. Store in a cool, dry area. Store in a well ventilated area. Contents may develop pressure upon prolonged storage; loosen closure cautiously before opening. Mix only with water. Do not reuse container. Empty containers may retain product residue, follow MSDS/label precautions even after container is emptied. Contact with certain food sugars can release hazardous amounts of carbon monoxide gas in enclosed vessels.

**Incompatible materials** Contact with acids and acid-containing cleaners, such as rust removers, vinegar, and toilet bowl cleaners may generate hazardous gases, such as chlorine, along with heat. Interaction with ammonia-containing materials may liberate ammonia gas or chloramine derivatives of ammonia. Do not mix with: Organic matter. Reducing agents. Avoid contact with aluminum, zinc, other soft metals or galvanized metals. Reaction will generate hydrogen gas. This gas is flammable and/or explosive in presence of ignition source.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

| PRODUCT COMPOSITION<br>CAS#      | ACGIH TLV                    | OSHA PEL                               | NIOSH IDLH |
|----------------------------------|------------------------------|--|------------|
| POTASSIUM HYDROXIDE<br>1310-58-3 | Ceiling: 2 mg/m <sup>3</sup> | (vacated) Ceiling: 2 mg/m <sup>3</sup> | -          |

### Appropriate engineering controls

**ENGINEERING CONTROLS** General mechanical and/or local exhaust as needed to meet exposure limits if mist in air. Corrosion resistant equipment recommended. Showers. Eyewash stations.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Goggles and face shield are recommended to minimize eye contact.

**Skin and body protection** Nitrile, neoprene, or other appropriate gloves are recommended to minimize hand skin contact. Appropriate protective clothing as needed to prevent skin contact. Liquid may penetrate leather shoes and cause delayed burns. It is the responsibility of the end user of this product to determine level of PPE required that is consistent with safe use of this product.

**RESPIRATORY PROTECTION** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**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

|                                      |                          |                         |                          |
|--------------------------------------|--------------------------|-------------------------|--------------------------|
| <b>Physical state</b>                | Liquid                   | <b>Odor</b>             | Slight chlorine          |
| <b>Appearance</b>                    | Clear Pale yellow liquid | <b>Odor threshold</b>   | No information available |
| <b>Color</b>                         | No information available |                         |                          |
| <b>Property</b>                      | <b>Values</b>            | <b>Remarks • Method</b> |                          |
| <b>pH</b>                            | 14.0                     |                         |                          |
| <b>Melting point/freezing point</b>  | No information available |                         |                          |
| <b>Boiling point / boiling range</b> | No information available |                         |                          |
| <b>Flash point</b>                   | -                        | None to boiling.        |                          |
| <b>Evaporation rate</b>              | No information available |                         |                          |
| <b>Flammability (solid, gas)</b>     | No information available |                         |                          |
| <b>Flammability Limit in Air</b>     |                          |                         |                          |
| <b>Upper flammability limit:</b>     | No information available |                         |                          |
| <b>Lower flammability limit:</b>     | No information available |                         |                          |
| <b>Vapor pressure</b>                | No information available |                         |                          |
| <b>Vapor density</b>                 | No information available |                         |                          |
| <b>Specific gravity</b>              | 1.16 +/- 0.01            |                         |                          |
| <b>Water solubility</b>              | No information available |                         |                          |
| <b>Solubility in other solvents</b>  | No information available |                         |                          |

|                                  |                          |
|----------------------------------|--------------------------|
| <b>Partition coefficient</b>     | No information available |
| <b>Autoignition temperature</b>  | No information available |
| <b>Decomposition temperature</b> | No information available |
| <b>Kinematic viscosity</b>       | No information available |
| <b>Dynamic viscosity</b>         | No information available |
| <b>Explosive properties</b>      | No information available |
| <b>Oxidizing properties</b>      | No information available |

**Other Information**

|                                 |                          |
|---------------------------------|--------------------------|
| <b>Softening point</b>          | No information available |
| <b>VOC (EPA METH.24) (G/L):</b> | No information available |
| <b>Density</b>                  | No information available |
| <b>Bulk density</b>             | No information available |

## 10. STABILITY AND REACTIVITY

**REACTIVITY**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**CONDITIONS TO AVOID**

Extremes of temperature and direct sunlight.

**Incompatible materials**

Contact with acids and acid-containing cleaners, such as rust removers, vinegar, and toilet bowl cleaners may generate hazardous gases, such as chlorine, along with heat. Interaction with ammonia-containing materials may liberate ammonia gas or chloramine derivatives of ammonia. Do not mix with: Organic matter. Reducing agents. Avoid contact with aluminum, zinc, other soft metals or galvanized metals. Reaction will generate hydrogen gas. This gas is flammable and/or explosive in presence of ignition source.

**Hazardous Decomposition Products**

Chlorine gas. oxygen.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

|                            |  |
|----------------------------|--|
| <b>Product Information</b> | H314 - Causes severe skin burns and eye damage Causes severe skin burns and eye damage |
| <b>Inhalation</b>          | Causes burns.  |
| <b>Eye contact</b>         | Corrosive to the eyes and may cause severe damage including blindness.                 |
| <b>Skin contact</b>        | Causes burns.  |
| <b>Ingestion</b>           | Causes burns.  |

| PRODUCT COMPOSITION<br>CAS#      | Oral LD50            | Dermal LD50              | Inhalation LC50 |
|----------------------------------|----------------------|--------------------------|-----------------|
| POTASSIUM HYDROXIDE<br>1310-58-3 | = 214 mg/kg ( Rat )  | -                        | -               |
| Sodium hypochlorite<br>7681-52-9 | = 8200 mg/kg ( Rat ) | > 10000 mg/kg ( Rabbit ) | -               |

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

| PRODUCT COMPOSITION<br>CAS#      | ACGIH | IARC    | NTP | OSHA |
|----------------------------------|-------|---------|-----|------|
| Sodium hypochlorite<br>7681-52-9 | -     | Group 3 | -   | -    |

**Reproductive Toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information**

**Unknown Acute Toxicity** 2.55% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 5418 mg/kg

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

12.27% of the mixture consists of component(s) of unknown hazards to the aquatic environment

| PRODUCT COMPOSITION<br>CAS#      | Algae/aquatic plants | Fish  | Crustacea  |
|----------------------------------|----------------------|---|--|
| Sodium hypochlorite<br>7681-52-9 | -                    | 4.5 - 7.6: 96 h Pimephales promelas mg/L LC50 static<br>0.06 - 0.11: 96 h Pimephales promelas mg/L LC50 flow-through<br>0.4 - 0.8: 96 h Lepomis macrochirus mg/L LC50 static<br>0.28 - 1: 96 h Lepomis macrochirus mg/L LC50 flow-through<br>0.05 - 0.771: 96 h Oncorhynchus mykiss mg/L LC50 flow-through<br>0.03 - 0.19: 96 h Oncorhynchus mykiss mg/L LC50 semi-static<br>0.18 - 0.22: 96 h Oncorhynchus mykiss mg/L LC50 static | 0.033 - 0.044: 48 h Daphnia magna mg/L EC50 Static |

**Persistence and degradability**

No information available.

**Bioaccumulation**

| PRODUCT COMPOSITION<br>CAS#      | Partition coefficient |
|----------------------------------|-----------------------|
| POTASSIUM HYDROXIDE<br>1310-58-3 | 0.83                  |

**Other adverse effects** No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

|                               |   |
|-------------------------------|---|
| <b>Disposal of wastes</b>     | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| <b>Contaminated packaging</b> | Do not reuse container.   |

#### 14. TRANSPORT INFORMATION

|                             |   |
|-----------------------------|---|
| <b>UN/ID No.</b>            | 3266  |
| <b>Proper shipping name</b> | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (POTASSIUM HYDROXIDE, SODIUM HYPOCHLORITE SOLUTION) |
| <b>Hazard Class</b>         | 8   |
| <b>Packing Group</b>        | II  |
| <b>Description</b>          | 5 Liters (1.3 Gallons) and Less may be Classed as LTD. QTY.                                     |

#### 15. REGULATORY INFORMATION

##### International Inventories

|                      |                 |
|----------------------|-----------------|
| <b>TSCA</b>          | Complies        |
| <b>DSL/NDSL</b>      | Complies        |
| <b>EINECS/ELINCS</b> | Does not Comply |
| <b>ENCS</b>          | Does not Comply |
| <b>IECSC</b>         | Complies        |
| <b>KECL</b>          | Does not Comply |
| <b>PICCS</b>         | Complies        |
| <b>AICS</b>          | Does not Comply |

##### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

##### US Federal Regulations

##### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

##### SARA 311/312 Hazard Categories

|  |     |
|--|-----|
| <b>ACUTE HEALTH HAZARD</b>               | YES |
| <b>CHRONIC HEALTH HAZARD</b>             | No  |
| <b>FIRE HAZARD</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>REACTIVE HAZARD</b>                   | No  |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

| PRODUCT COMPOSITION<br>CAS#      | Hazardous Substances<br>RQs (in LBS) | U.S. - CERCLA/SARA -<br>Section 302 Extremely<br>Hazardous Substances<br>TPQs |
|----------------------------------|--------------------------------------|---|
| POTASSIUM HYDROXIDE<br>1310-58-3 | 1000                                 |   |
| Sodium hypochlorite<br>7681-52-9 | 100                                  |   |

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

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

| PRODUCT COMPOSITION<br>CAS#      | NJRTK: | MARTK: | PARTK: |
|----------------------------------|--------|--------|--------|
| POTASSIUM HYDROXIDE<br>1310-58-3 | 1571   | Listed | Listed |
| Sodium hypochlorite<br>7681-52-9 | Listed | Listed | Listed |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

**NFPA**

Health hazards 3  
 Flammability 0  
 Instability 1  
 Physical and Chemical Properties CORR

**HMIS**

Health hazards 3  
 Flammability 0  
 Physical hazards 1  
 Personal protection C

Prepared By EH&S DEPARTMENT  
 Revision Date 01/30/2015

Revision Note

**Disclaimer**

The information provided in this Material 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 SDS \*\*\*