



Revision Date 05/26/2017

SAFETY DATA SHEET

REVISION NUMBER: 1

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

Product identifier

Product name BFW-410

Other means of identification

Product code 119852

UN/ID No. 1814

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Water treatment chemical. Corrosion inhibitor.

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address

See Distributor information.

Importer

Rochester Midland Canada Corporation
5353 John Lucas Drive
Suite 103
Burlington, ON L7L 6G5
Canada

Distributor

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
CANUTEC: 613-996-6666

2. HAZARDS IDENTIFICATION

Classification

Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
This chemical is considered hazardous by the WHMIS 2015 Hazardous Products Regulation.

| | |
|-----------------------------------|------------|
| 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** Dark Brown**Physical state** Liquid**Odor** Mild Odor**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

Unknown Acute Toxicity 6.5% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

| PRODUCT COMPOSITION | CAS No. | % | TRADE SECRET |
|---------------------|-----------|-----|--------------|
| Potassium hydroxide | 1310-58-3 | 2.3 | |

4. FIRST AID MEASURES

First aid measures**General advice**

Immediately call a POISON CENTER or doctor/physician.

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/physician.

Skin contact

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

Inhalation 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.

Ingestion 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

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

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

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

Personal precautions Wear adequate personal protective equipment, see Section 8, Exposure Controls/Personal Protection.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Dike to contain. Pick up with absorbant material. Put in suitable container for disposal.

Methods for cleaning up Pick up and transfer to properly labeled containers. Flush residue with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Incompatible materials Do not mix with acidic materials. Neutralizes active ingredients. May release sulfur dioxide. 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 | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|----------------------------------|------------------------------|--|------------|
| Potassium hydroxide 1310-58-3 | Ceiling: 2 mg/m ³ | (vacated) Ceiling: 2 mg/m ³ | - |

Appropriate engineering controls

ENGINEERING CONTROLS

Showers
Eyewash stations
Ventilation systems.

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. 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

| | | | |
|-------------------------------|--------------------------|-------------------------|--------------------------|
| Physical state | Liquid | Odor | Mild Odor |
| Appearance | Dark Brown | Odor threshold | No information available |
| Color | Dark Brown | | |
| Property | Values | Remarks • Method | |
| pH | 13.8 | | |
| Melting point/freezing point | No information available | | |
| Boiling point / boiling range | 100 °C / 212 °F | | |
| Flash point | - | None to boiling. | |
| Evaporation rate | No information available | | |
| Flammability (solid, gas) | No information available | | |
| Flammability Limit in Air | | | |
| Upper flammability limit: | No information available | | |
| Lower flammability limit: | No information available | | |
| Vapor pressure | No information available | | |
| Vapor density | No information available | | |
| Specific gravity | 1.190 - 1.218 | | |
| Water solubility | No information available | | |
| Solubility in other solvents | No information available | | |
| Partition coefficient | No information available | | |
| Autoignition temperature | No information available | | |
| Decomposition temperature | No information available | | |
| Kinematic viscosity | No information available | | |
| Dynamic viscosity | No information available | | |
| Explosive properties | No information available | | |
| Oxidizing properties | No information available | | |

Other Information

| | |
|--------------------------|--------------------------|
| Softening point | No information available |
| VOC (EPA METH.24) (G/L): | 0 |
| Density | 10 lbs/gal (1.2 kg/l) |
| Bulk density | 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

Do not mix with acidic materials. Neutralizes active ingredients. May release sulfur dioxide. 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

Oxides of Carbon. Oxides of Sulfur.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

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

| PRODUCT COMPOSITION | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------------------------|---------------------|-------------|-----------------|
| Potassium hydroxide 1310-58-3 | = 214 mg/kg (Rat) | - | - |

Information on toxicological effects

| | |
|-----------------|---------------------------|
| Symptoms | No information available. |
|-----------------|---------------------------|

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

| | |
|---------------------------------|---|
| Sensitization | May cause allergic reaction in sulfite sensitive individuals. |
| Germ cell mutagenicity | No information available. |
| Carcinogenicity | No information available. |
| 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 6.5% 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) 7253 mg/kg

12. ECOLOGICAL INFORMATION**Ecotoxicity**

19.8005% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

| PRODUCT COMPOSITION | Partition coefficient |
|----------------------------------|-----------------------|
| Potassium hydroxide 1310-58-3 | 0.83 |

Other adverse effects

No information available

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 Do not reuse container.

14. TRANSPORT INFORMATION**DEPT. OF TRANSPORTATION**

UN/ID No. 1814
Proper shipping name POTASSIUM HYDROXIDE SOLUTION
Hazard Class 8
Packing Group II
Description 1 Liter (0.26 Gallons) and Less may be classed as LTD. QTY.

TDG

UN/ID No. 1814
Proper shipping name POTASSIUM HYDROXIDE SOLUTION
Hazard Class 8
Packing Group II
Description 1 Liter (0.26 Gallons) and Less may be classed as LTD. QTY.

15. REGULATORY INFORMATION

International Inventories

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

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

| | |
|--|-----|
| ACUTE HEALTH HAZARD | YES |
| CHRONIC HEALTH HAZARD | No |
| FIRE HAZARD | No |
| Sudden release of pressure hazard | No |
| REACTIVE HAZARD | YES |

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

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| PRODUCT COMPOSITION | Hazardous Substances RQs (in LBS) | U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs |
|----------------------------------|--|---|
| Potassium hydroxide 1310-58-3 | 1000 | |

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

| PRODUCT COMPOSITION | NJRTK: | MARTK: | PARTK: |
|----------------------------------|---------------|---------------|---------------|
| Potassium hydroxide 1310-58-3 | 1571 | 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 ALKALI

HMIS

Health hazards 3

Flammability 0

Physical hazards 1

Personal protection D

Revision Date

05/26/2017

Revision Note

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 SDS ***