

# SAFETY DATA SHEET

# MP-4

## 1. Product and Company Identification

Material name MP-4 Version # 2.0

**Revision date** Sep-02-2015 **Supersedes date** Apr-04-2013

Prepared by This SDS has been prepared by GE Water & Process Technologies Regulatory Department

(1-215-355-3300).

CAS # Mixture

**Product application** Membrane cleaner

#### Company/undertaking identification

GE Water & Process Technologies Canada

3239 Dundas Street West Oakville, Ontario, L6M 4B2

T 905-465-3030

#### **Emergency telephone**

(800) 877-1940

#### 2. Hazards Identification

**Emergency overview** Moderately irritating. May be corrosive in contact with moist skin. Severe irritant to the eyes, possibly

corrosive. Repeated exposure may result in respiratory sensitization.

Potential health effects

**Eyes** Severe irritant to the eyes. May be corrosive to the eyes.

**Skin** Primary route of exposure May cause moderate irritation to the skin. May be corrosive in contact with

moist skin.

**Inhalation** Primary route of exposure Dusts or mists are irritating to mucous membranes. Repeated exposure may

result in respiratory sensitization.

**Ingestion** May cause gastrointestinal irritation and abdominal pain. In solution, material may become corrosive to

tissues. Possible severe allergic reactions in sensitive individuals.

Target organs Prolonged or repeated exposures may cause primary irritant dermatitis, skin sensitization, and/or

allergic respiratory reactions.

Signs and symptoms Inhalation may cause eye, nose, throat and lung irritation and possible respiratory sensitisation or

asthma. Skin contact may cause moderate irritation or severe burns and sensitization.

Medical conditions aggravated by

exposure

Asthma Allergies Respiratory diseases Skin disorders

## 3. Composition / Information on Ingredients

Components	CAS#	Percent (wt/wt)
Sodium Bisulfite	7631-90-5	60 - 100
Sodium sulphite	7757-83-7	0.1 - 1

**Composition comments** 

Information for specific product ingredients as required by the WHMIS Regulations is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

#### 4. First Aid Measures

First aid procedures

**Inhalation** Move to fresh air. If breathing stops, provide artificial respiration. For breathing difficulties, oxygen may

be necessary. Get medical attention immediately.

**Skin contact** Wash off with soap and water. Take off contaminated clothing and wash before reuse. Get medical

attention if irritation develops and persists.

Eye contact URGENT! Immediately flush eyes with plenty of low-pressure water for at least 20 minutes while

removing contact lenses. Hold eyelids apart. Get immediate medical attention.

**Ingestion** If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to a

victim who is unconscious or is having convulsions. Do not induce vomiting. Call a physician immediately. Dilute contents of stomach using 2-8 fluid ounces (60-240ml) of milk or water.

**Notes to physician**Corrosive material It may not be advisable to induce vomiting. Possible mucosal damage may

contraindicate the use of gastric lavage.

#### 5. Fire Fighting Measures

Extinguishing media

**Suitable extinguishing media** Dry chemical, CO2, water spray or regular foam.

Protection of firefighters

Protective equipment for

firefighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand

breathing apparatus, protective clothing and face mask.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk.

Cool containers / tanks with water spray. Fire fighters should wear positive pressure self-contained

breathing apparatus (full face-piece type).

**Explosion data** 

Sensitivity to static discharge

Sensitivity to mechanical

impact

Not available.

# 6. Accidental Release Measures

**Personal precautions** Wear appropriate protective equipment and clothing during clean-up. Avoid contact with spilled

material. See Section 8 of the MSDS for Personal Protective Equipment.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground. Water contaminated with this product

may be sent to a sanitary sewer treatment facility, or a permitted waste treatment facility, in

accordance with any local agreements.

Methods for cleaning up Ventilate area, use specified protective equipment. Absorb with earth, sand or other non-combustible

material and transfer to containers for later disposal. Flush with plenty of water. Wet area may be

slippery. Spread sand/grit.

## 7. Handling and Storage

**Handling** Vent carefully before opening. Sulfur dioxide can be formed during the normal use and handling of this

product.

**Storage** Keep container tightly closed in a dry and well-ventilated place.

#### 8. Exposure Controls / Personal Protection

#### Occupational exposure limits

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value
Sodium Bisulfite (CAS 7631-90-5)	TWA	5 mg/m3

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	
Sodium Bisulfite (CAS	TWA	5 mg/m3	

7631-90-5)

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value
Sodium Bisulfite (CAS	TWA	5 mg/m3
7631-90-5)		

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Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components Type Value Sodium Bisulfite (CAS TWA 5 mg/m3 7631-90-5)

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components Value Type Sodium Bisulfite (CAS TWA 5 mg/m3

7631-90-5)

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components Type Sodium Bisulfite (CAS TWA 5 mg/m3

7631-90-5)

No biological exposure limits noted for the ingredient(s). **Biological limit values** 

Adequate ventilation to maintain air contaminants below exposure limits. **Engineering controls** 

Personal protective equipment

Eye/face protection Chemical goggles are recommended. Splash proof chemical goggles.

Wear suitable protective clothing. Chemical resistant gloves. The choice of an appropriate glove does Skin protection

not only depend on its material but also on other quality features and is different from one producer to the other. Chemical resistant apron. Glove selection must take into account any solvents and other

hazards present, neoprene gloves Wash off after each use. Replace as necessary.

If air-purifying respirator use is appropriate, use a respirator with acid gas cartridges and dust/mist Respiratory protection

#### 9. Physical & Chemical Properties

**Appearance** 

Physical state Powder Color White to yellow Sulfur dioxide Odor Not available. Odor threshold 4.3 (1% SOL.) pH in aqueous solution Vapor pressure < 0.01 mm Hg 70 °F (21 °C) Vapor pressure temp. < 1 (Air = 1)Vapor density

**Boiling point** Not available. Melting point/Freezing point

100 % Solubility (water)

Specific gravity (70°F, 21°C) Not available.

Flash point > 213 °F (> 101 °C) P-M(CC)

Flammability limits in air, upper,

% by volume

Not available.

Not available.

Flammability limits in air, lower,

% by volume

**Evaporation rate** 

Not available.

Auto-ignition temperature

Not available. < 1(Ether = 1) 70 °F (21 °C)

Viscosity temperature Percent volatile 0 (Estimated)

# 10. Chemical Stability & Reactivity Information

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Chemical stability

Conditions to avoid Not available.

Strong oxidizing substances. Incompatible materials

Hazardous decomposition

products

Sulfur oxides.

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### 11. Toxicological Information

#### Toxicological data

Product	Species	Test Results	
MP-4 (CAS Mixture)			
Acute			
Oral			
LD50	Rat	1000 mg/kg, (Calculated according to GHS additivity formula (Category 4))	
Components	Species	Test Results	
Sodium Bisulfite (CAS 7631-90-5)			
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Inhalation			
LC50	Rat	> 5.5 mg/l, 4 Hour	
Oral			
LD50	Rat	1420 mg/kg	
Sodium sulphite (CAS 7757-83-7)			
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Inhalation			
LC50	Rat	> 5.5 mg/l, 4 Hour	
Oral			
LD50	Rat	2610 mg/kg	
Carcinogenicity			

#### **ACGIH Carcinogens**

Sodium Bisulfite (CAS 7631-90-5) A4 Not classifiable as a human carcinogen.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium Bisulfite (CAS 7631-90-5) 3 Not classifiable as to carcinogenicity to humans. Sodium sulphite (CAS 7757-83-7) 3 Not classifiable as to carcinogenicity to humans.

### 12. Ecological Information

**Ecotoxicity** No ecotoxicity data noted for the ingredient(s).

## 13. Disposal Considerations

Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal instructions Empty containers or liners may retain some product residues. This material and its container must be Waste from residues / unused

disposed of in a safe manner. products

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since Contaminated packaging emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport Information

## TDG

Not regulated as dangerous goods.

#### DOT

Not regulated as a dangerous good.

Some containers may be exempt from Dangerous Goods/Hazmat Transport Regulations, please check BOL for exact container classification.

## **IMDG**

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

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## 15. Regulatory Information

WHMIS status Controlled

WHMIS classification

D2A - Other Toxic Effects-VERY TOXIC

D2B - Other Toxic Effects-TOXIC

#### WHMIS labeling



#### Inventory status

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

### 16. Other Information

List of abbreviations

HMIS® ratings

Health: 3

Flammability: 0

Physical hazard: 0

Physical hazard: 0 Personal protection: B

NFPA ratings Health: 2

Flammability: 1 Instability: 0

**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.

This data sheet contains changes

from the previous version in

section(s):

Composition / Information on Ingredients: Disclosure Overrides

HazReg Data: International Inventories

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<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).