

# **Material Safety Data Sheet**

First Issue : October 8, 2010 Revised : October 25, 2010

#### 1. Identification of the substance

**Products Name**: Concentrated Pretreatment Agent F8076

Company Name : BROTHER INDUSTRIES, LTD.

Address: 1-5, Kitajizoyama, Noda-cho, Kariya 448-0803, Japan

## 2. HAZARDS IDENTIFICATION

## **EMERGENCY OVER VIEW**

#### : Irritating to eyes.

This product is classified as dangerous preparation according to European Directives 67/548/EEC and 1999/45/EC for the classification, packaging and labelling of dangerous substances and preparations.

#### POTENTIAL HEALTH EFFECTS

**Inhalation :** May be harmful if inhaled.

Eye : May cause irritation, tearing and reddeningSkin : May cause skin irritation and /or sensitization.

(Upon prolonged or repeated contact may cause skin irritation and /or sensitization. The product contains preservative less than 0.06% which causes sensitization.)

Ingestion: Mildly irritating to mouth, throat, and stomach. Can cause abdominal discomfort.

#### POTENTIAL ENVIRONMENTAL EFFECTS

Not available

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical nature: water based mixture

Hazardous components	CAS-No	Conc.%	<b>Hazard Symbol</b>	Risk phrases
Calcium nitrate tetrahydrate (1)	13477-34-4	25-30	Xi	36/38
Calcium Chloride (1)	10043-52-4	5-10	Xi	36
Diethylene Glycol (1)	111-46-6	5-10	Xn	22

- (1) Substances presenting a health hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.
- (2) OSHA hazardous according to 29 CFR 1910.1200
- (3) Subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.



## 4. FIRST-AID MEASURES

**Inhalation** :Remove to fresh air. Get medical attention if necessary.

Eye :Gently rinse the affected eye(s), including under the eyelids, with clean

water for at least 15 minutes. If irritation persists, get medical attention.

**Skin** :Remove all contaminated clothing, shoes and socks from the affected

areas as quickly as possible, cutting them off if necessary .Wash the affected areas under tepid running water using a mild soap. If irritation

persists, get medical attention.

Ingestion :Wash out mouth with water provided person is conscious. Never give

anything by mouth to an unconscious person.

# 5. FIRE-FIGHTING MEASURES

Flammable properties : This product is water based and does not sustain burning.

Extinguishing media : None.

Fire fighting instructions : None.

# 6. ACCIDENTAL RELEASE MEASURES

**Land spill** : Small spills could be flushed with large quantities of water.

Larger spills should be collected for disposal.

**Water spill**: Do not allow to enter soil, waterways or waste water canal.

Larger spills should be collected for disposal.

# 7. HANDLING AND STORAGE

**Handling** :Use proper protective equipment.

**Storage** :Keep containers tightly closed.

Avoid leaking, rolling or dropping.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>components</u> <u>OSHA : PEL</u> <u>ACGIH : TLV</u>

**Exposure controls** 

occupational exposure controls

**Engineering controls** : Not required in normal works.



# **Personal protection**

**Respiratory Protection** : Not required in normal works.

**Hand protection** :Protective impervious gloves are recommended.

**Eye protection** :Splash proof goggles are recommended.

**Skin protection** :Remove soiled or soaked clothing immediately.

# **Environmental exposure controls**

Treatment of effluent containing the product should be done in compliance with regulation.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** :Water-based liquid with slight odor

**pH** :4∼6

Boiling point ( $^{\circ}$ C) :>100 $^{\circ}$ C

**Melting Point** :No Data

Flash point ( $^{\circ}$ C) :None

Auto ignition temperature: No Data

Flammability limits : No Data

(vol-%)

Specific Gravity( $H_2O=1$ ) :1.1 $\sim$ 1.4

 $(g/cm^3)$ 

**Solubility in water** :Infinite

(g/l, 20 °C )

**Vapor Density(AIR=1)** : No Data

# 10. STABILITY AND REACTIVITY

Conditions to avoid :Not applicable

Stability :Stable under normal conditions.

Materials to avoid :Avoid strong oxidizing agents.

Hazardous reactions/decomposition products:

Not available

# 11. TOXICOLOGICAL INFORMATION

**Acute toxicity** : No product data

**Sensitization** : Upon prolonged or repeated contact can cause skin irritation and /or

sensitization. The product contains preservative less than 0.06% which

causes sensitization.



## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : Not available

**Mobility** : This product is water soluble.

Persistence and biodegradability: Not available

**Bioaccumulative potentioal** : Not available

**Remarks**: Do not allow to enter soil, waterways or waste water canal.

## 13. DISPOSAL CONSIDERATIONS

Waste disposal must be made in compliance with applicable local, state and country regulations.

## 14. TRANSPORT INFORMATION

UN. CLASS :Not applicableUN. No. :Not applicablePacking Group :Not applicable

**Transportation Practice** :Any transportation practice must be done in compliance with law and

regulation.

# 15. REGULATORY INFORMATION

Regulatory information with regard to this product in your country or region should be examined by your own responsibility.

## Classification and labeling

This product is classified as dangerous preparation according to European Directives 67/548/EEC and 1999/45/EC for the classification, packaging and labelling of dangerous substances and preparations.

**Hazard symbol:** Xi

Risk phrases: R36/38

R 36/38 Irritating to eyes and skin.

**Safety phrases:** S22,S24/25,S26,S28,S36/37/39/S45,S46

S 22 Do not breathe dust.

S 24/25 Avoid contact with skin and eyes.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 28 After contact with skin, wash immediately with plenty of water.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S 45 In case of accident or if you feel unwell, seek medical advice immediately. S 46 If swallowed, seek medical advice immediately and show container or label.

#### 16. OTHER INFORMATION

The information on this sheet is not a specification, it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon



our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.