

## FIRE WASH

### SECTION 1. IDENTIFICATION

|                                      |  |
|--------------------------------------|--|
| <b>Product Identifier</b>            | FIRE WASH  |
| <b>Other Means of Identification</b> | ESTEAM FIRE WASH   |
| <b>Product Family</b>                | mixture  |
| <b>Recommended Use</b>               | Fire restoration and general hard surface wash.                                    |
| <b>Restrictions on Use</b>           | For use on Hard surfaces.  |
| <b>Manufacturer</b>                  | Esteam Mfg Ltd, 3750 19th NE , Calgary , Alberta, T2E6V2, 403-291-7050, esteam.com |
| <b>Emergency Phone No.</b>           | Canutec, 1-613-996-6666, 24 hr   |
| <b>Date of Preparation</b>           | February 14, 2017  |

### SECTION 2. HAZARD IDENTIFICATION

#### Classification

Skin irritation - Category 2; Serious eye damage - Category 1

#### Label Elements



Signal Word:  
Danger

Hazard Statement(s):  
Causes serious eye damage.  
Causes skin irritation.

Prevention:  
Wash hands thoroughly after handling.  
Wear eye protection/face protection.

Response:  
IF ON SKIN: Wash with plenty of water.  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
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 CENTRE or doctor.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                     | CAS No.   | %     | Other Identifiers |
|-----------------------------------|-----------|-------|-------------------|
| 2-Butoxyethanol                   | 111-76-2  | 10-20 |                   |
| Diethylene glycol monobutyl ether | 112-34-5  | 1-5   |                   |
| Ammonium hydroxide                | 1336-21-6 | 1-4   |                   |

#### Notes

\*The exact percentage (concentrations) of the substance in the mixture has been withheld as a trade secret.

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

##### Skin Contact

Rinse with lukewarm, gently flowing water for 5 minutes. Remove all contaminated clothes and shoes. Contact a physician if irritation persists.

##### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice or attention.

##### Ingestion

Rinse mouth with water. Get medical advice or attention if you feel unwell or are concerned. DO NOT induce vomiting unless directed to do so by medical personnel.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

##### Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

#### Specific Hazards Arising from the Product

Does not burn.

#### Special Protective Equipment and Precautions for Fire-fighters

As in any fire, wear self-contained breathing apparatus and protective suit.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

#### Environmental Precautions

Concentrated product: it is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

### SECTION 7. HANDLING AND STORAGE

#### Precautions for Safe Handling

Avoid repeated or prolonged skin contact. Do not get in eyes. Only use where there is adequate ventilation.

#### Conditions for Safe Storage

Store in the original, labelled, shipping container. Keep container tightly closed. Store in cool dry place. Keep out of reach of children.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Not available.

### Appropriate Engineering Controls

General ventilation is usually adequate.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles.

#### Skin Protection

Wear chemical protective gloves and safety glasses.

#### Respiratory Protection

In Case of insufficient ventilation, wear suitable respiratory equipment.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

|  |   |
|--|---|
| Appearance                                       | Clear pink liquid.                                    |
| Odour  | Ammonia-like  |
| Odour Threshold                                  | Not available   |
| pH   | 12.2  |
| Melting Point/Freezing Point                     | Not applicable (melting); 0 °C (32 °F) (freezing)     |
| Initial Boiling Point/Range                      | 205 °C (401 °F)                                       |
| Flash Point                                      | Not applicable  |
| Evaporation Rate                                 | Not available   |
| Upper/Lower Flammability or Explosive Limit      | Not applicable (upper); Not applicable (lower)        |
| Vapour Pressure                                  | Not available   |
| Relative Density (water = 1)                     | 1.01  |
| Solubility                                       | completely in water; Not available (in other liquids) |
| Partition Coefficient, n-Octanol/Water (Log Kow) | Not available   |
| Auto-ignition Temperature                        | Not applicable  |
| Decomposition Temperature                        | Not available   |
| Other Information                                |   |
| Physical State                                   | Liquid  |

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

### Conditions to Avoid

Acidic conditions (low pH).

### Incompatible Materials

Acids.

### Hazardous Decomposition Products

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Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

| Chemical Name                     | LC50  | LD50 (oral)      | LD50 (dermal)       |
|-----------------------------------|---|------------------|---------------------|
| 2-Butoxyethanol                   | > 4.9 mg/L (rat) (4-hour exposure) (vapour) | 1300 mg/kg (rat) | > 2000 mg/kg (rat)  |
| Diethylene glycol monobutyl ether | > 29 ppm (rat) (2-hour exposure)            | 4500 mg/kg (rat) | 2764 mg/kg (rabbit) |
| Ammonium hydroxide                | 3670 ppm (rat) (4-hour exposure)            | 350 mg/kg (rat)  |                     |

### Skin Corrosion/Irritation

May cause mild irritation based on information for closely related chemicals.

### Serious Eye Damage/Irritation

May cause serious eye damage based on information for closely related materials.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

May cause nose and throat irritation.

#### Skin Absorption

No information was located.

#### Ingestion

No known significant effects or critical hazards.

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause irritation of the respiratory system. May cause respiratory tract injury.

### Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer. Not known to be a skin sensitizer.

### Carcinogenicity

Not known to cause cancer.

### Reproductive Toxicity

#### Development of Offspring

Not known to harm the unborn child.

#### Sexual Function and Fertility

Not known to cause effects on sexual function or fertility.

### Germ Cell Mutagenicity

Not known to be a mutagen.

## SECTION 12. ECOLOGICAL INFORMATION

### Persistence and Degradability

No information was located.

### Bioaccumulative Potential

The potential to Bioaccumulate is low.

### Mobility in Soil

No information was located.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

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Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

## SECTION 14. TRANSPORT INFORMATION

This section is not required by OSHA HCS 2012.

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15. REGULATORY INFORMATION

**Safety, Health and Environmental Regulations**

**Canada**

**Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

All ingredients are listed on the DSL or are not required to be listed.

**CEPA - National Pollutant Release Inventory (NPRI)**

Part 1A, Part 5.

**USA**

**Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are listed on the TSCA Inventory.

## SECTION 16. OTHER INFORMATION

**SDS Prepared By** Product safety manager

**Phone No.** 403-291-7050

**Date of Preparation** February 14, 2017

**References** CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS). Raw ingredient SDS's.

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