

**SECTION 1: Product and Company Identification****1.1. Product identifier**

Product name : EDFRED Shower Stall & Tile Cleaner  
Product code : 63817

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture : Acidic cleaner

**1.3. Details of the supplier of the safety data sheet**

Edfred Corporation  
170 Hayes Road, Ste A  
Watsonville, CA 95076

**1.4. Emergency telephone number**

Emergency number : 408-286-0493

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification (GHS)**

Met. Corr. 1 H290  
Skin Corr. 1B H314

Full text of H-phrases: see section 16

**2.2. Label elements****GHS labeling**

Hazard pictograms (GHS) :



GHS05

Signal word (GHS) :

Danger

Hazard statements (GHS) :

H290 - May be corrosive to metals  
H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS) :

P234 - Keep only in original container  
P260 - Do not breathe mist  
P264 - Wash hands thoroughly after handling  
P280 - Wear protective gloves  
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a doctor  
P363 - Wash contaminated clothing before reuse  
P390 - Absorb spillage to prevent material damage  
P405 - Store locked up  
P406 - Store in a dry, cool place container with a resistant inner liner  
P501 - Dispose of contents/container to an approved waste disposal plant

**2.3. Other hazards**

No additional information available

**SECTION 3: Composition/information on ingredients**

# EDFRED Shower Stall & Tile Cleaner

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Component	CAS (Chemical Abstracts Service) number	%	Classification (GHS)
water	7732-18-5	75	Not classified
phosphoric acid	7664-38-2	24	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
Nonionic surfactant*	Trade secret	1	Eye Dam. 1, H318 Aquatic Acute 2, H402 Acute Tox. 4 (Oral), H302

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.
- First-aid measures after eye contact : 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.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Causes severe skin burns and eye damage.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Absorb spillage to prevent material damage.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# EDFRED Shower Stall & Tile Cleaner

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : May be corrosive to metals.  
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, spray.  
Hygiene measures : Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.  
Storage conditions : Keep only in the original container in a cool, well ventilated place away from: chlorine-based bleaching agents. Keep container closed when not in use.  
Incompatible products : Strong bases. Strong acids.  
Incompatible materials : Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

EDFRED Shower Stall & Tile Cleaner		
ACGIH	Not applicable	
OSHA	Not applicable	
water (7732-18-5)		
ACGIH	Not applicable	
OSHA	Not applicable	
nonionic surfactant		
ACGIH	Not applicable	
OSHA	Not applicable	
phosphoric acid (7664-38-2)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
ACGIH	Remark (ACGIH)	URT, eye, & skin irr
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>

#### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.  
Hand protection : Wear protective gloves.  
Eye protection : Chemical goggles or face shield.  
Skin and body protection : Wear suitable protective clothing.  
Respiratory protection : Wear appropriate mask.  
Other information : Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Color : Light blue  
Odor : Mint  
Odor threshold : No data available  
pH : < 2  
Relative evaporation rate (butyl acetate=1) : < 1  
Melting point : No data available  
Freezing point : No data available  
Boiling point : 100.6 °C

# EDFRED Shower Stall & Tile Cleaner

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Flash point	: > 94 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 24 mm Hg
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.13 g/cm <sup>3</sup>
Solubility	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Reaction with metals causes release of hydrogen.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong bases. May be corrosive to metals.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Corrosive vapors.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

phosphoric acid (7664-38-2)	
LD50 oral rat	1530 mg/kg (Rat)
LD50 dermal rabbit	2740 mg/kg (Rabbit)

Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: < 2
Serious eye damage/irritation	: Not classified pH: < 2
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

# EDFRED Shower Stall & Tile Cleaner

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

<b>phosphoric acid (7664-38-2)</b> <i>(LC50 &gt;100 mg/l = not classified as toxic to aquatic organisms)</i>	
LC50 fish 1	138 mg/l (96 h; Pisces; Lethal)
LC50 other aquatic organisms 1	240 mg/l (96 h; Protozoa; pH < 7)
LC50 fish 2	100 - 1000 mg/l (Pisces)
LC50 other aquatic organisms 2	100 - 1000 mg/l
TLM fish 1	138 ppm (24 h; Gambusia affinis)
Threshold limit other aquatic organisms 1	240 mg/l (96 h; Protozoa; pH < 7)
Threshold limit other aquatic organisms 2	100 - 1000

#### 12.2. Persistence and degradability

<b>EDFRED Shower Stall &amp; Tile Cleaner</b>	
Persistence and degradability	Not established.

<b>phosphoric acid (7664-38-2)</b>	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

#### 12.3. Bioaccumulative potential

<b>EDFRED Shower Stall &amp; Tile Cleaner</b>	
Bioaccumulative potential	Not established.

<b>phosphoric acid (7664-38-2)</b>	
Log Pow	-0.77 (Estimated value)
Bioaccumulative potential	Bioaccumulation: not applicable.

#### 12.4. Mobility in soil

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to an approved waste disposal plant.

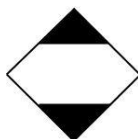
Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

In accordance with US Dept. of Transportation (DOT)

Transport document description : This product is shipped under the US Dept. of Transportation (DOT) 'Limited Quantity Exception' per 49CFR§172.315.

Hazard labels (DOT) : LTD QTY - Limited quantity



#### Additional information

Other information : No supplementary information available.

# EDFRED Shower Stall & Tile Cleaner

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

EDFRED Shower Stall & Tile Cleaner	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) 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.

phosphoric acid (7664-38-2)	
Not listed on the United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm at concentrations which could result in exposures above the safe harbour limits.

phosphoric acid (7664-38-2)	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	

### SECTION 16: Other information

Data sources : No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation.

Other information : None.

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

Edfred SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*