



## SAFETY DATA SHEET E-PHOS

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

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**1.1. Product identifier**

**Product name** E-PHOS  
**Product number** A088 EV  
**Internal identification** Janitorial - Washroom Hygiene Section

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

**Identified uses** Acidic Descaling Toilet Cleaner and Hard Surface Cleaner for washrooms

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

**Supplier** Evans Vanodine International  
Brierley Road  
Walton Summit  
Preston. PR5 8AH

Tel: 01772 322 200  
Fax: 01772 626 000  
qclab@evansvanodine.co.uk

**1.4. Emergency telephone number**

**Emergency telephone** New Safety Data Sheets - 8.30am to 4.45pm - 01772 322 200 - Mon to Fri. (Also available 24/7 from our website [www.evansvanodine.co.uk](http://www.evansvanodine.co.uk)) Technical Advice - 8.30am to 4.45pm - 01772 318 818 - Mon to Fri

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**SECTION 2: Hazards identification**

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**2.1. Classification of the substance or mixture****Classification****Physical hazards**

Not Classified

**Health hazards**

Skin Irrit. 2 - H315 Eye Dam. 1 - H318

**Environmental hazards**

Not Classified

Classification (67/548/EEC or 1999/45/EC)

**2.2. Label elements****Pictogram**

**Signal word** Danger

**Hazard statements**

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H315 Causes skin irritation.  
 H318 Causes serious eye damage.

**Precautionary statements**

P102 Keep out of reach of children.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301 IF SWALLOWED:  
 P313 Get medical advice/attention.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P501 Dispose of contents/container in accordance with local regulations.

**Contains**

PHOSPHORIC ACID ...%, ALCOHOL (C9-C11) ETHOXYLATE (6EO), ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

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

**3.2. Mixtures**

<p><b>PHOSPHORIC ACID ...%</b>                  CAS number: 7664-38-2 EC number: 231-633-2</p>	<p><b>3-5%</b></p>
<p><b>Classification</b>                  Skin Corr. 1B - H314</p>	<p><b>Classification (67/548/EEC or 1999/45/EC)</b>                  C;R34</p>
<p><b>ALCOHOL (C9-C11) ETHOXYLATE (6EO)</b>                  CAS number: 68439-45-2 EC number: —</p>	<p><b>1-3%</b></p>
<p><b>Classification</b>                  Acute Tox. 4 - H302                  Eye Dam. 1 - H318</p>	<p><b>Classification (67/548/EEC or 1999/45/EC)</b>                  Xn;R22. Xi;R41.</p>
<p><b>ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE</b>                  CAS number: 68424-85-1 EC number: 270-325-2                  M factor (Acute) = 1</p>	<p><b>1-3%</b></p>
<p><b>Classification</b>                  Acute Tox. 4 - H302                  Acute Tox. 4 - H312                  Skin Corr. 1B - H314                  Eye Dam. 1 - H318                  Aquatic Acute 1 - H400</p>	<p><b>Classification (67/548/EEC or 1999/45/EC)</b>                  Xn;R21/22. C;R34. N;R50.</p>

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**Inhalation**

Unlikely route of exposure as the product does not contain volatile substances. If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Do not induce vomiting. Give plenty of water to drink. Get medical attention if any discomfort continues.

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### Skin contact

Wash with plenty of water. Get medical attention if irritation persists after washing.

### Eye contact

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Get medical attention immediately. Continue to rinse.

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

#### General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

#### Inhalation

Irritation of nose, throat and airway.

#### Ingestion

May cause discomfort if swallowed.

#### Skin contact

Causes skin irritation. Prolonged and frequent contact may cause redness and irritation.

#### Eye contact

Severe irritation, burning and tearing. Prolonged contact causes serious eye and tissue damage.

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

#### Notes for the doctor

Treat symptomatically.

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## SECTION 5: Firefighting measures

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### 5.1. Extinguishing media

#### Suitable extinguishing media

The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

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

#### Specific hazards

Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours.

### 5.3. Advice for firefighters

#### Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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## SECTION 6: Accidental release measures

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

#### Personal precautions

Wear protective clothing, gloves, eye and face protection.

### 6.2. Environmental precautions

#### Environmental precautions

Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

#### Methods for cleaning up

Small Spillages: Flush away spillage with plenty of water. Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely.

### 6.4. Reference to other sections

#### Reference to other sections

For personal protection, see Section 8.

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## SECTION 7: Handling and storage

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## E-PHOS

### 7.1. Precautions for safe handling

#### **Usage precautions**

Wear protective clothing, gloves, eye and face protection.

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

#### **Storage precautions**

Keep only in the original container in a cool, well-ventilated place. Store away from the following materials: Oxidising materials. (eg Hypochlorite / Bleach)

### 7.3. Specific end use(s)

#### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

#### **Usage description**

See Product Information Sheet & Label for detailed use of this product.

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## **SECTION 8: Exposure Controls/personal protection**

### 8.1. Control parameters

#### **Occupational exposure limits**

##### **PHOSPHORIC ACID ...%**

Long-term exposure limit (8-hour TWA): WEL 1 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

### 8.2. Exposure controls

#### **Protective equipment**



#### **Appropriate engineering controls**

Not relevant.

#### **Eye/face protection**

Wear eye protection.

#### **Hand protection**

Wear protective gloves. (Household rubber gloves.)

#### **Other skin and body protection**

Wear appropriate clothing to prevent any possibility of skin contact.

#### **Respiratory protection**

Respiratory protection not required.

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## **SECTION 9: Physical and Chemical Properties**

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

#### **Appearance**

Viscous liquid.

#### **Colour**

Clear. Blue.

#### **Odour**

Floral.

#### **pH**

pH (concentrated solution): 1.30

#### **Melting point**

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-1°C

### Initial boiling point and range

101°C @ 760 mm Hg

### Flash point

Boils without flashing.

### Relative density

1.024 @ 20°C

### Solubility(ies)

Soluble in water.

## 9.2. Other information

### Other information

None.

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with alkalis and generates heat.

### 10.2. Chemical stability

#### Stability

No particular stability concerns.

### 10.3. Possibility of hazardous reactions

See sections 10.1,10.4 & 10.5

### 10.4. Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

### 10.5. Incompatible materials

#### Materials to avoid

Concentrated alkaline materials. Chlorine releasing materials will liberate toxic chlorine gas.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicological effects

We have not carried out any animal testing for this product. Any ATE figures quoted below are from Toxicity Classifications that have been carried out using ATE (Acute Toxicity Estimate) Calculation Method using LD50 or ATE figures provided by the Raw Material Manufacturer.

#### Other health effects

Low oral toxicity, but ingestion may cause irritation of the gastro-intestinal tract.

#### Acute toxicity - oral

##### Notes (oral LD50)

Based on available data the classification criteria are not met.

##### ATE oral (mg/kg)

14,100.8945092

#### Acute toxicity - dermal

##### Notes (dermal LD50)

Based on available data the classification criteria are not met.

##### ATE dermal (mg/kg)

110000.0

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### SECTION 12: Ecological Information

#### Ecotoxicity

Not regarded as dangerous for the environment.

#### 12.1. Toxicity

We have not carried out any Aquatic testing, therefore we have no Aquatic Toxicity Data specifically for this product. The Aquatic Toxicity Data, where provided by the raw material manufacturer for ingredients with aquatic toxicity, can be made available on request.

#### 12.2. Persistence and degradability

##### Persistence and degradability

The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

#### 12.3. Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

#### 12.4. Mobility in soil

##### Mobility

Not known.

#### 12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

#### 12.6. Other adverse effects

Not known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal methods

Discharge used solutions to drain. Small amounts (less than 5 Litres) of unwanted product may be flushed with water to sewer. Larger volumes must be sent for disposal by approved waste contractor. Rinse out empty container with water and consign to normal waste.

### SECTION 14: Transport information

#### 14.1. UN number

UN No. (ADR/RID)	3264
UN No. (IMDG)	3264
UN No. (ICAO)	3264

#### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (phosphoric acid solution)
Proper shipping name (IMDG)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (phosphoric acid solution)
Proper shipping name (ICAO)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (phosphoric acid solution)
Proper shipping name (ADN)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (phosphoric acid solution)

#### 14.3. Transport hazard class(es)

ADR/RID class	Class 8 : Corrosive Substances.
ADR/RID label	8
IMDG class	Class 8: Corrosive substances.
ICAO class/division	Class 8: Corrosive substances.

**E-PHOS****ICAO subsidiary risk****Transport labels****14.4. Packing group**

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III

**14.5. Environmental hazards****Environmentally hazardous substance/marine pollutant**

No.

**14.6. Special precautions for user**

EmS F-A, S-B

**Emergency Action Code****Hazard Identification Number  
(ADR/RID)**

Tunnel restriction code (E)

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not relevant. for a packaged product.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation**

Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 453/2010 (which amends Regulation (EC) No 1907/2006). The product is as classified under GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures. Ingredients are listed with classification under both CHIP - Directive 67/548/EEC - classification, packaging & labelling of dangerous substances & GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

**Guidance**

Workplace Exposure Limits EH40.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out as not applicable as this product is a mixture.

**SECTION 16: Other information****Key literature references and sources for data**

Material Safety Data Sheet, Misc. manufacturers. CHIP Class - Table 3.2 The list of harmonised classification and labelling of hazardous substances from Annex I to Directive 67/548/EEC. CLP Class - Table 3.1 List of harmonised classification and labeling of hazardous substances. ECHA - C&L Inventory database.

**Revision comments**

This product is now using classification from GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

Revision date 01/06/2015

Revision Issue 7

**SDS status** The Risk Phrases / Hazard Statements listed below in this Section No 16 relate to the Raw Materials (Ingredients) in the Product (as listed in Section 3) and NOT the product itself. For the Risk Phrases / Hazard Statements relating to this Product see Section 2.

## E-PHOS

### Risk phrases in full

NC Not classified.  
R21/22 Harmful in contact with skin and if swallowed.  
R22 Harmful if swallowed.  
R34 Causes burns.  
R41 Risk of serious damage to eyes.  
R50 Very toxic to aquatic organisms.

### Hazard statements in full

H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H400 Very toxic to aquatic life.