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

## 1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade name</td>
<td>PEAK RADIATOR FLUSH &amp; CLEANER 32 FL.OZ.</td>
</tr>
<tr>
<td>Product code</td>
<td>PKF0AE, PKF0AE-02</td>
</tr>
</tbody>
</table>

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

| Use of the substance/mixture | Radiator Flush |

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

Old World Industries, LLC  
4065 Commercial Ave.  
Northbrook, IL 60062  
T 847-559-2000

## 1.4. Emergency telephone number

| Emergency number | CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International) |

# SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

**Classification (GHS-US)**
- Acute Tox. 4 (Dermal) H312
- Skin Irrit. 2 H315
- Eye Irrit. 2A H319
- Carc. 1B H350

Full text of H-phrases: see section 16

## 2.2. Label elements

**GHS-US labeling**

### Hazard pictograms (GHS-US)

- GHS07
- GHS08

### Signal word (GHS-US)

- Danger

### Hazard statements (GHS-US)

- H312 - Harmful in contact with skin
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H350 - May cause cancer

### Precautionary statements (GHS-US)

- P201 - Obtain special instructions
- P202 - Do not handle until all safety precautions have been read and understood
- P264 - Wash affected areas thoroughly after handling
- P280 - Wear protective gloves, protective clothing, eye protection, face protection
- P302+P352 - If on skin: Wash with plenty of soap and 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
- P308+P313 - If exposed or concerned: Get medical advice/attention
- P312 - Call a POISON CONTROL CENTER, doctor, if you feel unwell.
- P321 - Specific treatment: See section 4.1 on SDS
- P332+P337 - If skin irritation occurs: Get medical advice/attention
- P338+P350+P337 - If eye irritation persists: Get medical advice/attention
- P362 - Take off contaminated clothing and wash before reuse
- P362+P364 - Take off contaminated clothing and wash it before reuse
- P405 - Store locked up
- P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

## 2.3. Other hazards

**Other hazards not contributing to the classification**

- None under normal conditions.

## 2.4. Unknown acute toxicity (GHS-US)

No data available
SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>(CAS No) 7732-18-5</td>
<td>85 - 95</td>
<td>Not classified</td>
</tr>
<tr>
<td>Gluconic Acid, D-, Conc=50%, Aqueous Solution</td>
<td>(CAS No) 526-95-4</td>
<td>1 - 5</td>
<td>Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2B, H320</td>
</tr>
<tr>
<td>EDTA Tetratsodium Salt</td>
<td>(CAS No) 64-02-8</td>
<td>1 - 5</td>
<td>Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation: vapour), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Carc. 1B, H350</td>
</tr>
</tbody>
</table>

The exact percentage is a trade secret.

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: Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact: Immediately call a poison center or doctor/physician. Specific measures (see ... on this label). Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment: See section 4.1 on SDS. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment: See section 4.1 on SDS.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries: May cause cancer.

Symptoms/injuries after inhalation: None under normal use.

Symptoms/injuries after skin contact: May cause moderate irritation. Itching. Red skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Causes skin irritation.

Symptoms/injuries after eye contact: Causes serious eye irritation. Inflammation/damage of the eye tissue. Redness of the eye tissue. Irritation of the eye tissue.

Symptoms/injuries after ingestion: May be harmful if swallowed and enters airways.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Reactivity: No reactivity hazard other than the effects described in sub-sections below.

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

General measures: Remove ignition sources.

6.1.1. For non-emergency personnel

Protective equipment: Gloves. Safety glasses.

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

| For containment | : Dam up the liquid spill. |
| 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. |

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

| 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. Obtain special instructions. Do not handle until all safety precautions have been read and understood. |
| Hygiene measures | : Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling. |

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

| Technical measures | : Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations. |
| Storage conditions | : Keep only in the original container in a cool, well ventilated place away from Sources of ignition. Direct sunlight. |
| Incompatible products | : Strong bases. Strong acids. |
| Incompatible materials | : Sources of ignition. Direct sunlight. |

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

Follow Label Directions.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### 8.2. Exposure controls

| Appropriate engineering controls | : Local exhaust ventilation, vent hoods. |
| Personal protective equipment | : Avoid all unnecessary exposure. Gloves. Safety glasses. |
| Hand protection | : Wear protective gloves. |
| Eye protection | : Chemical goggles or safety glasses. |
| 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 |
| Appearance | : Liquid. |
| Color | : Colourless to light yellow. |
| Odor | : Characteristic. |
| Odor threshold | : No data available |
| pH | : 4 |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : 100 °C |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
PEAK RADIATOR FLUSH & CLEANER 32 FL.OZ.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.013</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information

VOC content : 0 %

SECTION 10: Stability and reactivity

10. Reactivity
No reactivity hazard other than the effects described in sub-sections below.

10.2. Chemical stability
Not established.

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid
High temperature. Refer to Section 10 on Incompatible Materials. Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- Acute toxicity : Harmful in contact with skin.
- Skin corrosion/irritation : Causes skin irritation.
  pH: 4
- Serious eye damage/irritation : Causes serious eye irritation.
  pH: 4
- Respiratory or skin sensitization : Not classified
- Germ cell mutagenicity : Not classified. Based on available data, the classification criteria are not met
- Carcinogenicity : May cause cancer.
- Reproductive toxicity : Not classified
- Specific target organ toxicity (single exposure) : Not classified
- Specific target organ toxicity (repeated exposure) : Not classified
- Aspiration hazard : Not classified
- Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met. Harmful in contact with skin.
- Symptoms/injuries after inhalation : None under normal use.
- Symptoms/injuries after skin contact : May cause moderate irritation. Itching. Red skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Causes skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye irritation. Inflammation/damage of the eye tissue. Redness of the eye tissue. Irritation of the eye tissue.
- Symptoms/injuries after ingestion : May be harmful if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity
PEAK RADIATOR FLUSH & CLEANER 32 FL.OZ.

Safety Data Sheet

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

<table>
<thead>
<tr>
<th>EDTA Tetrasodium Salt (64-02-8)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>&gt; 100 mg/l (Lepomis macrochirus)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>&gt; 100 mg/l (Pimephales promelas)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

PEAK RADIATOR FLUSH & CLEANER 32 FL.OZ.

Persistence and degradability

Not established.

<table>
<thead>
<tr>
<th>EDTA Tetrasodium Salt (64-02-8)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>No test data of component(s) available. No (test)data on mobility of the components available.</td>
</tr>
</tbody>
</table>

Gluconic Acid, D-, Conc=50%, Aqueous Solution (526-95-4)

Persistence and degradability

Readily biodegradable in water. No (test)data on mobility of the components available.

Chemical oxygen demand (COD)

0.5 g O₂ /g substance

ThOD

0.9 g O₂ /g substance

BOD (% of ThOD)

0.39 % ThOD

Water (7732-18-5)

Persistence and degradability

Not established.

12.3. Bioaccumulative potential

PEAK RADIATOR FLUSH & CLEANER 32 FL.OZ.

Bioaccumulative potential

Not established.

<table>
<thead>
<tr>
<th>EDTA Tetrasodium Salt (64-02-8)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioaccumulative potential</td>
<td>No test data of component(s) available.</td>
</tr>
</tbody>
</table>

Gluconic Acid, D-, Conc=50%, Aqueous Solution (526-95-4)

Log Pow

-2.57 - -1.87

Bioaccumulative potential

Bioaccumulation: not applicable.

Water (7732-18-5)

Bioaccumulative potential

Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information

Avoid release to the environment.

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 appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

Ecology - waste materials

Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

US DOT (ground): Not regulated,

ICAO/IATA (air): Not regulated,

IMO/IMDG (water): Not regulated,

14.2. UN proper shipping name

Proper Shipping Name (DOT)

Not regulated

14.3. Additional information

Other information

No supplementary information available.

Overland transport

No additional information available

Transport by sea

No additional information available
PEAK RADIATOR FLUSH & CLEANER 32 FL.OZ.

Safety Data Sheet

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

### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

**PEAK RADIATOR FLUSH & CLEANER 32 FL.OZ.**

<table>
<thead>
<tr>
<th>SARA Section 311/312 Hazard Classes</th>
<th>Immediate (acute) health hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTA Tetrasodium Salt (64-02-8)</td>
<td>Immediate (acute) health hazard</td>
</tr>
<tr>
<td>Gluconic Acid, D-, Conc=50%, Aqueous Solution (526-95-4)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
</tbody>
</table>

#### 15.2. International regulations

**CANADA**

**WHMIS Classification**

Class E - Corrosive Material

**Gluconic Acid, D-, Conc=50%, Aqueous Solution (526-95-4)**

Listed on the Canadian DSL (Domestic Substances List)

**EU-Regulations**

**Gluconic Acid, D-, Conc=50%, Aqueous Solution (526-95-4)**


Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xii; R36

Full text of R-phrases: see section 16

#### 15.2.2. National regulations

**Gluconic Acid, D-, Conc=50%, Aqueous Solution (526-95-4)**

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Korean ECL (Existing Chemicals List)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

#### 15.3. US State regulations

No additional information available

### SECTION 16: Other information

Indication of changes: Revision - See : *.

Other information: None.

Full text of H-phrases: see section 16:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Dermal)</th>
<th>Acute toxicity (dermal) Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Inhalation)</td>
<td>Acute toxicity (inhalation) Category 4</td>
</tr>
<tr>
<td>Acute Tox. 4 (Inhalation:vapour)</td>
<td>Acute toxicity (inhalation:vapour) Category 4</td>
</tr>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral) Category 4</td>
</tr>
<tr>
<td>Carc. 1B</td>
<td>Carcinogenicity Category 1B</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td>Eye Irrit. 2B</td>
<td>Serious eye damage/eye irritation Category 2B</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
</tbody>
</table>
PEAK RADIATOR FLUSH & CLEANER 32 FL.OZ.
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H320</td>
<td>Causes eye irritation</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
</tbody>
</table>

NFPA health hazard: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard: 0 - Materials that will not burn.
NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

NFPA health hazard: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard: 0 - Materials that will not burn.
NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating
Health: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability: 0 Minimal Hazard
Physical: 0 Minimal Hazard
Personal Protection: B

SDS US (GHS HazCom 2012) - TCC
The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product.

Disclaimer: The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.