SAFETY DATA SHEET
DIPEX® Extractant SDS
Revision Date: 01-Feb-18

Section 1: Chemical Product and Company Identification

Product Name: DIPEX® Extractant
Product Number(s): AC-SX-B01, DIPEX
Product Synonym(s): Di-octyl-methylene-bis-phosphonic acid
Identified Uses: Laboratory chemicals, manufacture of substances
Manufacturer: Eichrom Technologies LLC
1955 University Lane
Lisle, Illinois 60532
General Information: (8-5 CST M-F)
800-422-6693 (in USA)
630-963-0320
24 Hour Emergency Number (US/Canada): 1-800-255-3924
CHEMTEL Contract #:MIS9554039
24 Hour International Access Number: 1-813-248-0585

Section 2: Hazard(s) Identification

2.1 Classification of the substance or mixture
GHS Classification of substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
Skin Irritant and Eye Irritant

2.2 GHS Label elements, including precautionary statements

Pictogram:

<table>
<thead>
<tr>
<th>Signal Word</th>
<th>Hazard Statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warning</td>
<td>H315+H319 Causes skin irritation and serious eye irritation</td>
</tr>
</tbody>
</table>

Precautionary Statement(s):

<table>
<thead>
<tr>
<th>Prevention</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>P264 Wash hands thoroughly after handling.</td>
<td></td>
</tr>
<tr>
<td>P280 Wear protective gloves, clothing, and eye protection.</td>
<td></td>
</tr>
<tr>
<td>P302+P352 IF ON SKIN: Wash with plenty of soap and water.</td>
<td></td>
</tr>
<tr>
<td>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</td>
<td></td>
</tr>
<tr>
<td>P332+P313 If skin irritation occurs, seek medical attention.</td>
<td></td>
</tr>
<tr>
<td>P337+P313 If eye irritation persists, get medical attention.</td>
<td></td>
</tr>
<tr>
<td>P362+P364 Take off contaminated clothing and wash before reuse.</td>
<td></td>
</tr>
</tbody>
</table>

2.3 Hazards Not Otherwise Classified (HNOC) or not covered by GHS:

Country Specific Emergency Numbers:

Australia: 1-300-954-583
Brazil: 0-800-591-6042
India: 000-800-100-4086
Mexico: 1-800-99-731
**Section 3: Composition / Information on Ingredients**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS_Number</th>
<th>Percentage Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Di-octyl-methylene-bis-phosphonic acid</td>
<td>180572-58-1</td>
<td>100%</td>
</tr>
</tbody>
</table>

**Section 4: First-aid Measures**

**General Advice**
The hazardous properties of this material have not been established. Treat material as if it were toxic when evaluating first aid requirements.

**Ingestion**
Rinse mouth and call a POISON CONTROL CENTER or doctor if you feel unwell.

**Skin Contact**
Wash immediately with soap and copious amounts of water. Remove and wash contaminated clothing promptly. If irritation develops, seek medical attention.

**Eye Contact**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Inhalation**
Remove to fresh air. If breathing is labored, administer oxygen. If not breathing, give artificial respiration. Seek medical attention.

**Most important symptoms and effects, both acute and delayed**
No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**
Treat according to symptoms (decontamination, vital functions), no known specific antidote.

**Section 5: Firefighting Measures**

**Extinguishing Media**
Foam, CO2, Dry Chemical

**Fire and Explosion Hazards**
Highly toxic and irritating fumes may be released and extinguishing water runoff may be toxic.

**Protective Equipment**
Wear positive pressure self-contained breathing apparatus and full personal protective equipment.

**Special Hazards**
Possible combustion products include phosphorous oxides, phosphoric acid, carbon dioxide, and carbon monoxide, in addition to unidentified organic compounds.

**Section 6: Accidental Release Measures**

**Personal Precautions**
Use proper personal protect equipment (specified in section 8)

**Methods and materials for containment and clean-up**
Ventilate area and wash spill site after material pickup is complete. Scrape up material and transfer to a closed, dry container for disposal.

**Reference to other sections**
For disposal see section 13.

**Section 7: Handling and Storage**

**Conditions for safe handling**
Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

**Conditions for safe storage**
Normal warehouse storage in cool, dry area is satisfactory. Keep away from strong oxidizers.

**Section 8: Exposure Controls / Personal Protection**

**Control Parameters**
Contains no substances with occupational exposure limit values.

**Exposure Controls**
Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Mechanical exhaust is required.

**Eye protection**
Wear safety glasses.

**Skin Protection**
Wear impervious gloves and clean body-covering clothing.

**Respiratory protection**
Use NIOSH/MSHA approved respirator when handling material outside of mechanical exhaust. An air-purifying respirator with an organic vapor cartridge or canister may be permissible.
Section 9: Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Yellow</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Low to none</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not established</td>
</tr>
<tr>
<td>pH</td>
<td>Not established</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not established</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not established</td>
</tr>
<tr>
<td>Relative Density</td>
<td>Not established</td>
</tr>
<tr>
<td>Solubility</td>
<td>Practically insoluble in water</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not established</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Viscous; no data available</td>
</tr>
</tbody>
</table>

Section 10: Stability and Reactivity

Reactivity
No hazardous reactions if stored and handled as indicated.

Chemical Stability
Stable under normal handling and storage conditions.

Hazardous reactions
Reacts with strong oxidizing agents.
Toxic fumes may be released if heated above the decomposition point.
No hazardous reactions are expected in normal laboratory use. Hazardous polymerization will not occur.

Conditions to Avoid
No relevant information available.

Hazardous decomposition Products
Possible combustion products include phosphorous oxides, phosphoric acid, carbon dioxide, and carbon monoxide; additional unidentified organic compounds may also be produced.

Section 11: Toxicology Information

Acute Toxicity
Oral LD50 has not been determined. Acute toxicity via the oral route of administration expected to be low.
Inhalation Effects
No data available for acute inhalation effects. Acute toxicity via the inhalation route of administration expected to be low.
Dermal Effects
Dermal LD50 has not been determined.

Skin corrosion/irritation
Non-corrosive to skin via Corrositex® (skin) test.

Serious eye damage/irritation
No test data available regarding eye irritation. Slight irritation expected.

Respiratory or skin sensitization
No data available regarding respiratory sensitization effects of this product.

Germ Cell Mutagenicity
No data available regarding mutagenic effects of this product.

Carcinogenicity
No data available regarding carcinogenic effects of this product.

Reproductive Toxicity
No data available regarding reproductive effects of this product.

Specific Target Organ Toxicity
Single Exposure
No data available regarding specific target organ toxicity single exposure.
Repeated Exposure
No data available regarding specific target organ toxicity repeated exposure.

Aspiration Hazard
No data available regarding the aspiration hazard of this product.
**Section 12: Ecological Information**

- **Aquatic Toxicity**: No data are available on the adverse effects of this material on the environment.
- **Persistance and degradability**: No data are available for persistance and degradability.
- **Bioaccumulative potential**: No data are available for bioaccumulative potential.
- **Mobility in Soil**: No data are available for mobility in soil.
- **PBT/vPvB assessment**: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
- **Other**: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Section 13: Disposal Considerations**

- **General**: Dispose of contents/container in accordance with federal, state, and local regulations.
- **Unused**: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
- **Used**: For material contaminated with hazardous materials, dispose of mixture as hazardous material according to local, state, and federal regulations.

**Section 14: Transport Information**

- **Air Transport**: Not Hazardous per IATA 2014
- **Ground Transport**: Not D.O.T. Hazardous
- **Water Transport**: Not Hazardous per IMDG 2012

**Section 15: Regulatory Information**

- **US Federal Regulations**: Toxic Substances Control Act (TSCA): This material is provided to you under the research and development (R&D) exemption.

**Section 16: Other Information**

**Revision**: Updated to GHS SDS format, including classification

**1-Feb-2018**: Update Emergency Phone Numbers

**SDS Prepared By**: Eichrom Technologies LLC

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