



Material Safety Data Sheet
Carbon Standards, Organic, COD Standards,
Potassium Acid Phthalate, 0.05 N

Section 1 - Chemical Product and Company Identification

MSDS Name:

Carbon Standards, Organic, COD Standards, Potassium Acid Phthalate, 0.05 N

Catalog Numbers:

LC12910, LC13240, LC13245, LC18700

Synonyms:

Potassium hydrogen phthalate solution

Company Identification:

LabChem Inc
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300 or
011-703-527-3887

Section 2 - Composition, Information on Ingredients

| CAS# | Chemical Name: | Percent |
|-----------|------------------------------|---------|
| 7732-18-5 | Water | balance |
| 877-24-7 | Potassium hydrogen phthalate | <1 |
| 7664-38-2 | Phosphoric acid | <1 |

Section 3 - Hazards Identification

Emergency Overview

Appearance: Clear, colorless solution

Caution! May cause irritation to eyes, skin, respiratory and gastrointestinal tracts. May be harmful if swallowed.

Target Organs: Eyes, skin, respiratory and gastrointestinal tracts

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation.

Ingestion:

Causes gastrointestinal irritation with nausea, vomiting and diarrhea.



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Inhalation:

May cause respiratory tract irritation.

Chronic:

May cause dermatitis and conjunctivitis. Repeated inhalation may cause lung damage.

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

Skin:

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid.

Ingestion:

Give conscious victim 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid at once.

Inhalation:

Move victim to fresh air immediately. If breathing is difficult, administer oxygen. Give artificial respiration if necessary. Get medical aid at once.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

Not available

Flash Point:

Not applicable

NFPA Rating:

Health- 1, Flammability- 0, Instability- 0

Explosion Limits:

Lower: n/a Upper: n/a

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material such as sand, vermiculite, or diatomaceous earth, and transfer to a suitable container labeled for later disposal.



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Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Do not ingest or inhale. Do not get in eyes, on skin, or on clothing.

Storage:

Store tightly capped in a cool, dry, well-ventilated area away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities using or storing this material should be equipped with an eyewash and safety shower. Provide local exhaust or general dilution ventilation to keep airborne levels below the permissible exposure limits.

Exposure Limits:

| Chemical Name: | ACGIH | NIOSH | OSHA |
|-------------------------------------|-----------------------------|--------------------------------|-------------|
| Water | None listed | None listed | None listed |
| Potassium hydrogen phthalate | None listed | None listed | None listed |
| Phosphoric acid | 1 mg/m3 TWA 3 mg/m3 STEL | 1 mg/m3 TWA 1000 mg/m3 IDLH | 1 mg/m3 TWA |

OSHA Vacated PELs:

Phosphoric acid: 1 mg/m3 TWA

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. Do not wear contact lenses when working with chemicals.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134. Always use a NIOSH-approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Color: Colorless
Odor: Odorless
pH: Acidic



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| | |
|-----------------------------------|---------------|
| Vapor Pressure: | Not available |
| Vapor Density: | Not available |
| Evaporation Rate: | Not available |
| Viscosity: | Not available |
| Boiling Point: | Not available |
| Freezing/Melting Point: | Not available |
| Decomposition Temperature: | Not available |
| Solubility in water: | Soluble |
| Specific Gravity/Density: | 1.0 |
| Molecular Formula: | Not available |
| Molecular Weight: | Not available |

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, excess heat.

Incompatibilities with Other Materials:

Strong oxidizing agents, bases, alcohols, amines, metals, aldehydes, reducing agents, organic peroxides, ketones, halogenated hydrocarbons.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, potassium oxides, potassium fume, hydrogen gas, oxides of phosphorus, phosphine

Hazardous Polymerization:

Has not been reported.

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000

CAS# 877-24-7: CZ4326000

CAS# 7664-38-2: TB6300000

LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg

CAS# 877-24-7:

Oral, rat: LD50 = >3200 mg/kg

Skin, guinea pig: LD50 = >1 g/kg

CAS# 7664-38-2:

Inhalation, rat: LC50 = 25.5 mg/m³

Oral, rat: LD50 = 1530 mg/kg

Skin, rabbit: LD50 = 2740 mg/kg

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NTP, OSHA, or California Proposition 65.



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CAS# 877-24-7: Not listed as a carcinogen by ACGIH, IARC, NTP, OSHA, or California Proposition 65.

CAS# 7664-38-2: Not listed as a carcinogen by ACGIH, IARC, NTP, OSHA, or California Proposition 65.

Epidemiology:

See actual entry in RTECS for complete information.

Teratogenicity:

Teratogenic effects have occurred in laboratory animals.

Reproductive:

Experiments have shown reproductive toxicity effects on laboratory animals.

Mutagenicity:

Mutagenic effects have occurred in microorganisms.

Neurotoxicity:

No information found.

Section 12 - Ecological Information

No information found.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA:

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 877-24-7 is listed on the TSCA Inventory.

CAS# 7664-38-2 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ):

CAS# 7664-38-2: final RQ = 5000 pounds (2270 kg)

CERCLA/SARA Section 313:

Not reportable under Section 313

OSHA - Highly Hazardous:

Not considered highly hazardous by OSHA



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US State

State Right to Know:

Phosphoric acid can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California Regulations:

None

European/International Regulations

Canadian DSL/NDSL:

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 877-24-7 is listed on Canada's DSL List.

CAS# 7664-38-2 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 877-24-7 is not listed on Canada's Ingredient Disclosure List.

CAS# 7664-18-5 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: October 8, 2010

Revision Date: October 11, 2010

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