



Material Safety Data Sheet

Product Category: Aqueous solution containing 5.7% phosphoric acid (H₃PO₄): Stop Solution

Revision date: December 2010

Emergency telephone number:
Center for Disease Control: (404) 633-5313

1. IDENTIFICATION OF SUPPLIER / SUBSTANCE

eBioscience 888-810-6168
10255 Science Center Drive.
San Diego, CA
92121
USA

2. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear
Physical State: Liquid
Color: None
Odor: None
Flash Point: Not determined
Auto igniting: Not determined

3. HAZARDS IDENTIFICATION

General Hazard Information: The toxicological properties of this product have not been fully investigated. Always follow safe laboratory and industrial hygiene practices and wear proper personal protective equipment when handling chemicals.

Most Important Hazards:
Risk Phases:

R22 – Harmful if swallowed

R36 – Irritating to eyes
R37 – Irritating to respiratory system
R38 – Irritating to skin



NFPA Rating:
(Scale 0-4)

Health = not determined
Fire = not determined
Reactivity = not determined

Physical/Health Effects:

Not determined

Principle routes of exposure:

Oral: Yes
Eye contact: Yes
Skin contact: Yes
Ingestion: Yes
Inhalation: Yes

Carcinogenicity Rating:

Not rated

Component(s)	CAS Number	NTP:	IARC:	California Proposition 65 List
N/A	N/A	Not listed	Not listed	N/A

Signs and Symptoms:

Unknown

**Medical Conditions
Aggravated by Exposure:**

Unknown

4. COMPOSITION / COMPONENT INFORMATION

Components	CAS Number	Weight %	(TWA-8 hr)	(STEL):	(Ceiling Limit Value):	PBOEL
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Exposure Limits:

Not determined

5. FIRST AID MEASURES

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Ingestion:

Do not induce vomiting. Get medical aid immediately. Call a poison control center.

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Skin Contact:

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

Protection of First-Aid Providers

Wear appropriate self-contained breathing apparatus and protective garments.

6. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Extinguishing media which must not be used for safety reasons:

Unknown

Special Protective Equipment for

Wear appropriate self-contained breathing apparatus and protective garments.

Specific Hazards:

None known.

Hazardous Combustion Products:

Unknown

Explosion Limits:

Lower:

Unknown

Upper:

Unknown

7. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wash any exposed body area thoroughly with soap and water after completion of activities involving product.

Environmental Precautions:

Waste disposal must be in accordance with appropriate US, Federal, State and International regulations.

Methods for Clean Up:

Use appropriate protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste,

including absorbent material used to clean spills, in accordance with applicable laws.

8. HANDLING AND STORAGE

Handling

Technical Measures/Precautions:

Provide adequate local exhaust ventilation. Wear chemical resistant gloves, and eye protection, lab coat, apron or other protective clothing to minimize contact. Eyewash stations and deluge showers should be available. Observe appropriate laboratory hygiene practices. Avoid contact with skin or eyes.

Storage

Technical Measures/Storage Conditions:

Store at 2-8°C. Do not freeze. Light sensitive material.

Incompatible Products:

Stable. See enclosed data sheet for product-specific storage information.

9. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits:

Not determined

Engineering controls:

Provide adequate local exhaust ventilation.

Personal Protective Equipment:

Eye Protection:

Wear safety glasses. Eyewash stations and deluge showers should be available.

Hand Protection:

Wear chemical-resistant gloves.

Skin and Body Protection

Wear a lab coat, apron or other protective clothing to minimize contact.

Respiratory Protection:

None required if ventilation is adequate.

Other General Precautions:

Observe appropriate laboratory hygiene practices. Avoid contact with skin or eyes. Wash any exposed body area thoroughly with soap and water after completion of activities involving product

10. STABILITY AND REACTIVITY

Chemical Stability:

Hygroscopic: absorbs moisture or water from the air.

Hazardous Polymerization:

May occur.

Hazardous Decomposition Products:

Phosphine, oxides of phosphorus, hydrogen gas

Materials to Avoid:

Metals, bases, alcohols, amines, halogenated agents, organic peroxides, amides, azo, diazo, and hydrazines (e.g. dimethyl hydrazine, hydrazine, methyl hydrazine), carbamates (e.g. carbanolate, carbofuran), esters (e.g. butyl acetate, ethyl acetate, propyl formate), fluorides (inorganic, e.g. ammonium fluoride, calcium fluoride, cesium fluoride), phenols and cresols, organophosphates, phosphothioates (e.g. methylparathion, parathion, phorate, thionazin), epoxides (e.g. butyl glycidyl ether), combustible and flammable materials (e.g. alkyl resins, asphalt, gasoline, grease, methyl acetone, polystyrene, polyurethane), explosives (e.g. ammonium nitrate, hydrazoic acid, sodium azide), nitromethane, sodium tetrahydroborate, mercaptans, aldehydes, ketones, glycols, cyanides, sulfides, caustics. Unknown

Conditions to Avoid:**11. TOXICOLOGICAL INFORMATION****Acute effects**

Oral:	Not determined.
Eye irritation:	Not determined
Skin irritation:	Not determined
Inhalation:	Not determined

Chronic effects

Oral:	Not determined
Inhalation:	Not determined
Dermal:	Not determined

12. ECOLOGICAL INFORMATION

Eco-Toxicity Effects:	Unknown
Aquatic Toxicity Effects:	Unknown

Mobility:	Unknown
Persistence/degradability:	Unknown
Bioaccumulation:	Unknown
Degradation:	Unknown

13. DISPOSAL CONSIDERATIONS



Waste from Residual/Unused Products: Waste disposal must be in accordance with appropriate US, Federal, State and International regulations.

Contaminated Packaging: Waste disposal must be in accordance with appropriate US, Federal, State and International regulations.

Methods for Clean Up: Use appropriate protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

14. TRANSPORT INFORMATION

Product not regulated by DOT, IATA/ICAO, IMO/IMDG, ADR/RID, or TDG.

UN number: No information available

PG: No information available

15. REGULATORY INFORMATION

Indication of Danger:

R-Phrases

- R22- Harmful if swallowed
- R36- Irritating to eyes
- R37 – Irritating to respiratory system
- R38 – Irritating to skin

S- Phrases

- S14 - Keep from long-term exposure to light.
- S28 – After contact with skin, wash thoroughly with water.

SARA (311,312) Hazard Class

Immediate Health: None

Delayed Health: None

Fire: None

Sudden Release of

Pressure Hazard: None

Reactivity: None

TSCA inventory List: Unknown

WHMIS

WHMIS Trade Secret: None

WHMIS Hazard Class: Not listed

Canada DSL Inventory List: Unknown

Notes:

1. SARA= Superfund Amendments and the Reauthorization Act.
2. CERCLA= Comprehensive Environmental Response, Compensations and Liability Act.
3. FIFRA= Federal Insecticide, Fungicide and Rodenticide Act.
4. TSCA= Toxic Substance Control Act.
5. WHMIS=Canadian Workplace Hazardous Material Information System.
6. This product has been classified in accordance with the hazards criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

This data sheet contains changes from the previous version in section(s): N/A

Additional Advice: None

Literary Reference: None

MSDS Formats: North American Format- U.S. and Canada
This Material Safety Data Sheet was prepared in accordance with OSHA 29 CFR 1910.1200.

European Format
This material Data Sheet was prepared in accordance with 93/112/EEC.

Test of R Phrases
Unknown

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