

MATERIAL SAFETY DATA SHEET



Conforms to 93/112/EC and ISO 11014-1

1. Chemical Product and Company Identification

Product Name: Diogenes Activator

Product Number: CL-202B

Chemical Names/Description: Phosphate buffered solution containing additional proprietary electrolyte blend.

Manufacturer
National Diagnostics
305 Patton Drive
Atlanta, GA 30336

Telephone Numbers

(800) 526-3867
(404) 699-2121

Emergency Numbers

Chemtrec
(800) 424-9300 (U.S. & Canada)
01-703-527-3887 (outside U.S. & Canada)

2. Composition/Information on Ingredients

Component	% Comp.	CAS #	EINECS #	TLV (Units)
Sodium/Potassium Phosphate Buffer	2	7758-11-4	231-834-5	10 mg/m ³ total dust
Proprietary Electrolyte	9			none established

3. Hazards Identification

Appearance and Odor

Crystalline solid.

EMERGENCY OVERVIEW - IMMEDIATE HAZARD

CAUTION! MAY BE HARMFUL IF SWALLOWED.

EMERGENCY OVERVIEW - CHRONIC HAZARD WARNING:

INGESTION MAY SEQUESTER CALCIUM AND CAUSE CALCIUM PHOSPHATE DEPOSITS IN THE KIDNEYS.

Potential Health Effects

Inhalation

Not expected to be a health hazard by inhalation.

Ingestion

Phosphates are slowly and incompletely absorbed when ingested, and seldom result in systematic

effects. Some adverse health effects have occurred. The toxicity of phosphates is because of their ability to sequester calcium. Acute potassium intoxication by mouth is rare because large single doses usually induce vomiting and because in the absence of pre-existing kidney damage, potassium is rapidly excreted. Potassium poisoning can result in heart effects.

Skin

No adverse effects expected.

Eyes

No adverse effects expected but may cause mechanical irritation.

Signs and Symptoms of Overexposure

Inhalation

Not expected to be a health hazard by inhalation.

Ingestion

Symptoms may include vomiting, lethargy, diarrhea, blood chemistry effects, cardiac effects and central nervous system effects.

Skin

No adverse effects expected.

Eyes

Pain and redness.

Carcinogenicity

Not listed as a known or anticipated carcinogen by NTP or IARC.

Mutagenicity

No information found.

Reproductive Toxicity

No information found.

Teratogenic Effects

No information found.

Routes of Entry

No information found.

Target Organ Statement

Persons with impaired kidney function may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion

If swallowed, give several glasses of water to drink to dilute. If large amounts were swallowed or symptoms occur, get medical advice. Never give anything by mouth to an unconscious person.

Skin

Wash exposed area with soap and water. Get medical advice if irritation develops.

Eyes

Wash thoroughly with running water. Get medical advice if irritation develops.

5. Fire Fighting Measures

Flash Point	N.A.	Flammable Limits	N.A.
Flash Point Method	N.A.	Autoignition temperature	N.A.

Extinguishing media

Use media appropriate to the primary cause of fire.

Protective Equipment

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Hazardous Combustion Products

N.A.

Unusual Fire and Explosion Hazards

Not considered an explosion hazard.

NFPA Codes: Health 1 Flammability 0 Reactivity 0

6. Accidental Release Measures

Steps to be taken in case material is released or spilled

Contain and clean up spill immediately, prevent from entering floor drains. Contain liquids using absorbents. Shovel all spill materials into disposal drum. Scrub spill area with detergent, flush with copious amounts of water.

Waste Disposal Method

Disposal must be made in accordance with applicable federal, state, and local regulations.

Personal Precautions

Wear appropriate protective equipment as specified in section 8.

7. Handling and Storage

Handling

Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

Storage

Keep in a tightly closed container, stored in a cooled, dry, ventilated area.

Storage Temperature

Room Temperature

Disposal

Observe all national, state, and local regulations regarding disposal.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits

Component: Sodium/Potassium Phosphate Buffer

ACGIH Threshold Limit Value (TLV): 10 mg/m³ total dust

OSHA Permissible Exposure Limit (PEL): 15 mg/m³ total dust

Engineering Controls

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborn Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

Respiratory Protection

For conditions of use where exposure to the dust or mist is apparent, a full-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

Eye Protection

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Skin Protection

Wear protective gloves and clean body covering clothing.

Other Control Measures

N.A.

9. Physical Properties

Boiling point	N.A.	Evaporation Rate	N.A.
Melting point	N.A.	Solubility in water	Soluble
Vapor pressure (mmHg)	N.A.	pH	N.A.
Vapor density (Air = 1)	N.A.	Specific gravity (H₂O = 1)	1.0
% volatile by volume	N.A.		

10. Stability and Reactivity

Stability

Stable under normal conditions of use and storage.

Conditions to Avoid

No information found.

Hazardous Decomposition Products

Phosphorus oxides may form when heated to decomposition.

Hazardous Polymerization

Will not occur

Incompatibles

Sodium/Potassium Phosphate Buffer:

No incompatibility data found.

Proprietary Electrolyte:

No incompatibility data found.

11. Toxicological Information

Product LD50 Values

Diogenes Activator	Oral Rat LD50 (mg/kg):	No data
Diogenes Activator	Dermal Rabbit LD50 (mg/kg):	No data

Component Cancer List Status

NTP Carcinogen

	Known	Anticipated	IARC Category
Sodium/Potassium Phosphate Buffer Proprietary Electrolyte	No	No	None

12. Ecological Information

Sodium/Potassium Phosphate Buffer

No information found.

Proprietary Electrolyte

No information found.

13. Disposal Considerations

Observe all national, state, and local regulations regarding disposal.

14. Transport Information

D.O.T.

Proper Shipping Name: Not Regulated

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

I.A.T.A.

Proper Shipping Name: Not Regulated

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

I.M.O.

Proper Shipping Name: Not Regulated

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

15. Regulatory Information

United States

TSCA Regulatory Statement

All intentional ingredients are listed on the TSCA Inventory.

SARA 311/312 Hazard Categories

Component	Fire	Pressure	Reactivity	Acute	Chronic
Sodium/Potassium Phosphate Buffer	No	No	No	Yes	No
Proprietary Electrolyte	No	No	No	No	No

Europe

EEC Regulatory

All intentional ingredients are listed on the European EINECS Inventory.

16. Other Information

NFPA Codes: Health 1 Flammability 0 Reactivity 0

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