

Material Safety Data Sheet



Revision Date: 4/20/2012

MSDS #: 10127

PhosphaGLO Reserve AP Substrate

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description	Product Code
PhosphaGLO Reserve AP Substrate	55-60-01
	55-60-02
	55-60-08
	SPL-PGR

Hazardous Reagent
PhosphaGLO Reserve AP Substrate

Hazardous Reagent Product code
Catalog No. listed above

Recommended Use Reagent

Contact Manufacturer KPL, Inc.
910 Clopper Road
Gaithersburg, Maryland 20878
USA

Phone #: 1-301-948-7755

Fax #: 1-301-948-0169

Web: www.kpl.com

Email: msds@kpl.com

Emergency Telephone Numbers:

AUSTRALIA – POISONS INFORMATION CENTER
CANADIAN TRANSPORT EMERGENCY CENTER
UK – THE NATIONAL FOCUS
USA- NATIONAL RESPONSE CENTER

Telephone: 13 11 26
Telephone: (1) 613 996 6666
Telephone: (44) 029 2041 6388
Telephone: (1) 800 424 8802

Hours: 24 hours
Hours: 24 hours/day, 7 days/week
Hours: 09:00-17:00 GMT
Hours: 24 hours/day, 7 days/week

2. HAZARD IDENTIFICATION

Hazard Type Health Hazard: Irritant

Data for 100% Hazardous Chemical

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation, through the skin and by ingestion.

INHALATION RISK: Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.

SHORT-TERM EXPOSURE: The substance irritates the eyes, the skin and the respiratory tract. Exposure slightly above OEL could cause effects on the nervous system.

LONG-TERM EXPOSURE: Not Applicable

The product is a Mixture. It May Cause the following symptoms.

- EYES Redness. Pain.
- SKIN MAY BE ABSORBED! Redness. Blisters.
- INHALATION Cough. Headache. Shortness of breath. Unconsciousness. Nasal stuffiness. Blurred vision. Slowing heart beat. Fall in blood pressure.
- INGESTION Abdominal pain. Nausea. Sweating. (Further see Inhalation).

Classification T+; R28 - R32 - N; R50-53

Risk Phrases R28 : Very toxic if swallowed. R32 : Contact with acids liberates very toxic gas.
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Symbols of Danger T+ : Very toxic N : Dangerous for the environment

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CHEMICAL	% Weight	CAS #:	Classification
PhosphaGLO Reserve AP Substrate	Sodium Azide	<0.1%	26628-22-8	T+; R28 - R32 - N; R50-53

4. FIRST AID MEASURES

Data for 100% Hazardous Chemical

Ingestion First Aid: Rinse mouth. Do NOT induce vomiting. Give one or two glasses of water to drink. Rest. Refer for medical attention.

Inhalation First Aid: Fresh air, rest. Artificial respiration if indicated. Refer for medical attention.

Skin First Aid: Remove contaminated clothes. Rinse skin with plenty of water or shower.

Eye First Aid: First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

5. FIRE FIGHTING MEASURES

Data For 100% Hazardous Chemical

Fire Acute Hazard: Decomposes on heating.	Fire Prevention: NO contact with acids, heavy metals.	Fire Fighting: Dry sand, special powder.
Explosion Acute Hazard		
Risk of fire and explosion on contact with acids and many metals (lead, brass, copper, mercury, silver).	Do NOT expose to friction or shock.	In case of fire: keep drums, etc., cool by spraying with water.
CHEMICAL DANGERS: May explode on heating above melting point, especially on rapid heating, causing fire and explosion hazard. The solution in water is a weak base. Reacts with copper, lead, silver, mercury and carbon disulfide to form particularly shock-sensitive compounds. Reacts with acids, forming toxic and explosive hydrogen azide.		
PHYSICAL DANGERS: Not Applicable		

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes and clothing.
Environmental Precautions	No special environmental precautions required. Should not be released into the environment.
Method of Containment	Collect leaking and spilled liquid in sealable containers as far as possible.
Methods of Clean-up	Contain spill and then clean-up with copious amounts of water.
Other Information	Not Applicable

Data for 100% Hazardous Chemical

SPILLAGE DISPOSAL	Evacuate danger area! Consult an expert! Sweep spilled substance into plastic containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. (Extra personal protection: complete protective clothing in
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7. HANDLING AND STORAGE

Handling:	Handle in accordance with good industrial hygiene and safety practice.
Storage:	Store at 2 - 8°C. Protect from light and heat.

Data for 100% Hazardous Chemical

STORAGE	Fireproof. Separated from acids, food and feedstuffs, metals, especially lead and its compounds.
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8. EXPOSURE CONTROL

Data for 100% Hazardous Chemical

•INHALATION	Local exhaust or breathing protection.
•EYES	Safety goggles, or eye protection in combination with breathing protection.
•SKIN	Protective gloves.
•INGESTION	Do not eat, drink, or smoke during work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A multi-component mixture in a clear, aqueous, alkaline solution.
Physical State	Liquid

Data for 100% Hazardous Chemical

Boiling point: 275°C	Relative density (water = 1): 1.8475	Solubility in water: good (41.7 g/100 ml at 17°C)
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10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions
Incompatibility Materials to Avoid	Strong oxidizing or reducing agents, acids, combustible materials.
Hazardous Decomposition Products	Carbon Monoxide, Carbon Dioxide, Phosphorus oxides, Phosphines, Hydrogen chloride
Hazardous Polymerization	Will not occur

Data for 100% Hazardous Chemical

CHEMICAL DANGERS:	May explode on heating above melting point, especially on rapid heating, causing fire and explosion hazard. The solution in water is a weak base. Reacts with copper, lead, silver, mercury and carbon disulfide to form particularly shock-sensitive compounds. Reacts with acids, forming toxic and explosive hydrogen azide.
PHYSICAL DANGERS:	Not Applicable

11. TOXICOLOGY MEASURES

Acute Toxicity

The toxicological risks are minor due to the low concentration of hazardous ingredients. The following toxicological information is for the hazardous ingredient in pure form.

LD50 Oral	Data for 100% Sodium Azide: SPECIES: Rat ENDPOINT: LD50 VALUE: 27 mg/kg Acutely toxic
LD50 Dermal	Not Available
LC50 Inhalation	Not Available

Chronic Toxicity

Carcinogenicity	Not Applicable
Irritation	Data for 100% Sodium Azide: Applicable
Corrosivity	Not Applicable
Sensitization	Not Applicable
Neurological Effects	Data for 100% Sodium Azide: Suspected Neurotoxin
Mutagenic Effects	Not Applicable
Reproductive Effects	Not Applicable
Developmental Effects	Not Applicable
Target Organ Effects	Data for 100% Sodium Azide: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system
Other adverse effects	Not Applicable

12. ECOLOGICAL MEASURES

Ecotoxicity	Data for 100% Sodium Azide: Very ecotoxic in the aquatic environment
Persistence/Degradability	Not Available
Mobility in Environmental Media	Not Available
Bioaccumulation/Accumulation	Not Available

13. DISPOSAL MEASURES

Waste Disposal Method:	Avoid escape into water, drainage, sewer, or the ground. If there is no way of recycling it must be disposed of in compliance with the respective national and local regulations. Data for 100% Sodium Azide - Collection of small amounts of substance: Azides react with acidified nitrite solution forming nitrogen. This method is also suitable for the disposal of larger quantities. Alternative: Azides are disintegrated with iodine in the presence of sodium thiosulphate under the production of nitrogen. Place in collecting containers for salt solutions, adjust for a pH value of 6 - 8, or place in collecting containers for inorganic residues as well as heavy-metal salts and their solutions. Collection vessels must be clearly labelled with a systematic description of their contents and with the hazard symbol and the R and S phrases. Store the vessels in a well-ventilated location. Entrust them to the appropriate authorities for disposal.
Contaminated Packaging:	Avoid contact with skin and clothing. Place contaminated packaging in a break proof outer vessel and dispose on in compliance with national and local regulations.
US EPA Waste Number:	Not Available

14. TRANSPORTATION MEASURES

DOT:	Not Regulated
IATA:	Not Regulated
ADR (road)/ RID (rail):	Not Regulated
IMDG (sea):	Not Regulated
General Transport Regulations	Not Available

15. REGULATORY MEASURES

This product is a mixture that may contain one or more hazardous chemicals. The hazardous ingredients listed are only those as required by 29 CFR 1910.1200 g 2.C1.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains no chemical or chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (See 40 CFR 61)

This product contains no chemical or chemicals which are subject to the reporting requirements of the Clean Air Act.

State Regulations**California Proposition 65:**

This product contains the following Proposition 65 chemicals: Not Listed

State Right to Know Act

Chemical Name	Sodium Azide
Massachusetts	Listed
New Jersey	Listed
Pennsylvania	Listed
New York	Listed
Rhode Island	Listed

International Inventories

Chemical Name	Sodium Azide
TSCA	Listed
DSL	Listed
NDSL	Not Listed
EINECS	Listed
ELINCS	Not Listed
CHINA	Listed
KECL	Listed
JAPAN:	Listed
AICS	Listed

EU Regulations

Annex I Index#	Data for 100% Sodium Azide: 011-004-00-7
Classification	T+; R28 - R32 - N; R50-53
Risk Phrases	R28 : Very toxic if swallowed. R32 : Contact with acids liberates very toxic gas. R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases	S1/2 : Keep locked up and out of the reach of children. S28 : After contact with skin, wash immediately with plenty of water. S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S60 : This material and its container must be disposed of as hazardous waste. S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.
Symbols and Indications of Danger	T+ : Very toxic N : Dangerous for the environment
Specific Concentration Limits	Not Available
Export and Import	This substance is not listed in the Annex I of Regulation (EC) No 689/2008.
European Priority List	This substance is not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances.).

16. OTHER INFORMATION

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. KPL shall not be held liable for any damage resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes. This material is sold for research purposes and is intended as laboratory reagents only. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals.