

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : RHIZOPHOS

Synonyms : EC Fertilizer - PK solution

Other means of identification : Sea-weed based fertilizer, for foliar spraying

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Fertilizer

1.3. Details of the supplier of the safety data sheet

Arysta LifeScience North America LLC 15401 Weston Parkway, Suite 150

Cary, NC 27513 - USA

1.4. Emergency telephone number

Emergency number : Exposure Calls (PROSAR): +1-866-303-6952 or +1-651-603-3432 (international)

Spill Calls (CHEMTREC) (Contract # CCN1779): +1-800-424-9300 or +1-703-527-3887

(international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Met. Corr. 1 H290 Skin Corr. 1B H314

Full text of H statements : see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS-US) : P234 - Keep only in original container P260 - Do not breathe mist, vapours

P264 - Wash hands thoroughly after handling

P280 - Wear eye protection, protective gloves, face shield, protective clothing P301 + P330 + P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P303 + P361 + P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

P304 + P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a doctor

P321 - Specific treatment (see First aid measures on this label)

P363 - Wash contaminated clothing before reuse P390 - Absorb spillage to prevent material damage

P405 - Store locked up

P406 - Store in corrosive resistant container with a resistant inner liner

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable.

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	% (w/w)	GHS-US classification
Phosphoric acid	(CAS No) 7664-38-2	25 - 40	Met. Corr. 1, H290 Acute Tox. 4 (Dermal), H312
			Skin Corr. 1B, H314

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately

call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.

Wash contaminated clothing before reuse. Immediately call a POISON CENTER or

doctor/physician.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or

doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Irritation of the respiratory tract and the other mucous membranes.

Symptoms/injuries after skin contact : Causes severe skin burns and eye damage. Repeated exposure to this material can result in

absorption through skin causing significant health hazard. Harmful in contact with skin.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : May cause irritation of the mucous membranes.

4.3. Indication of any immediate medical attention and special treatment needed

All treatments should be based on observed signs and symptoms of distress in the patient.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable.

Reactivity : No dangerous reactions known.

5.3. Advice for firefighters

Firefighting instructions : Do not allow run-off from fire fighting to enter drains or water courses. Exercise caution when

fighting any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all eye and skin contact and do not breathe vapour and mist.

6.1.1. For non-emergency personnel

Protective equipment : Chemical goggles or safety glasses. Face shield. In case of inadequate ventilation wear

respiratory protection. Wear suitable gloves resistant to chemical penetration. PVC. rubber.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Chemical goggles or safety glasses. Face shield. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment. Wear suitable gloves. PVC. rubber.

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Emergency procedures : Ventilate area.

6.2. Environmental precautions

Do not discharge into drains or the environment.

6.3. Methods and material for containment and cleaning up

For containment : Absorb and/or contain spill with inert material, then place in suitable container. Never return

spills to original container for re-use.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Take

up in non-combustible absorbent material and shove into container for disposal. Absorb

spillage to prevent material damage.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : May be corrosive to metals.

Precautions for safe handling : Do not breathe mist, spray, vapours.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Do not store near food, foodstuffs, drugs, or potable water supplies. Keep only in the original

container in a cool well ventilated place.

Incompatible materials : metals.

Storage area : Store out of frost (-10 °C).

Packaging materials : Store in a corrosion resistant container with a resistant inner liner.

7.3. Specific end use(s)

Fertilizer.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

KHIZOPHOS		
ACGIH	Not applicable	
OSHA	Not applicable	
Phosphoric acid (7664-38-2)		
ACGIH	ACGIH TWA (mg/m³)	1 mg/m³
ACGIH	ACGIH STEL (mg/m³)	3 mg/m³
ACGIH	Remark (ACGIH)	URT, eye, & skin irr
OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m³

8.2. Exposure controls

Appropriate engineering controls : Avoid creating mist or spray. Avoid splashing. Emergency safety showers should be available

in the immediate vicinity of any potential exposure. Eyewash stations. Provide local exhaust

ventilation of closed transfer systems to minimize exposures.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear suitable gloves resistant to chemical penetration. PVC. rubber.

Eye protection : Face shield. Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing. Impervious clothing.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Use an approved respirator

equipped with oil/mist cartridges.

Other information : Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Green

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Odour : slight

Odour threshold : No data available

рΗ : 0.5 - 1

Melting point : No data available No data available Freezing point No data available Boiling point Flash point : No data available Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : No data available : No data available **Explosive limits** : No data available Explosive properties Oxidising properties : No data available Vapour pressure : No data available Relative density : 1.29 - 1.305 Relative vapour density at 20 °C No data available Solubility Soluble in water. Log Pow : No data available Log Kow No data available : No data available Auto-ignition temperature Decomposition temperature : No data available

Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Viscosity, kinematic

Viscosity, dynamic

Viscosity

No dangerous reactions known.

10.2. **Chemical stability**

Stable under normal conditions. Product color changes with time, without effect on its properties.

No data available

: No data available

No data available

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

Avoid excessive heat or cold. Do not store product at a temperature above 40 °C or below -10 °C.

Incompatible materials

metals. May be corrosive to metals.

Hazardous decomposition products

Thermal decomposition generates: Corrosive vapours.

SECTION 11: Toxicological information

Information on toxicological effects

Likely routes of exposure : Skin and eye contact Acute toxicity : Not classified

Phosphoric acid (7664-38-2)	
LD50 oral rat	3500 mg/kg
LD50 dermal rat	1260 mg/kg
ATE US (oral)	3500.000 mg/kg bodyweight
ATE US (dermal)	1260.000 mg/kg bodyweight

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified

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Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure)

exposure)

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : Irritation of the respiratory tract and the other mucous membranes.

Symptoms/injuries after skin contact : Causes severe skin burns and eye damage. Repeated exposure to this material can result in

absorption through skin causing significant health hazard. Harmful in contact with skin.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : May cause irritation of the mucous membranes.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No ecotoxicological data about this product are known.

Phosphoric acid (7664-38-2)	
LC50 fish 1	138 mg/l 96 h Gambusia affinis
EC50 Daphnia 1	> 100 mg/l 48 h

12.2. Persistence and degradability

RHIZOPHOS	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

RHIZOPHOS		
	Bioaccumulative potential	Not established.

12.4. Mobility in soil

RHIZOPHOS		
	Ecology - soil	No additional information available.

12.5. Other adverse effects

Other information : No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Do not dispose in household garbage. Dispose of in authorized waste collection plant.

Sewage disposal recommendations : Do not dispose of waste into sewer.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Dispose of container in a licensed facility.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1805 Phosphoric acid solution, 8, III

UN-No.(DOT) : UN1805

Proper Shipping Name (DOT) : Phosphoric acid solution
Packing group (DOT) : III - Minor Danger
Hazard labels (DOT) : 8 - Corrosive



Additional information

Other information : No supplementary information available.

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Transport by sea

IMDG

Transport hazard class(es) (IMDG) : 8



Marine pollutant : No UN-No. (IMDG) : 1805

Transport document description (IMDG) : UN 1805 PHOSPHORIC ACID SOLUTION, 8, III

Class (IMDG) : 8 - Corrosive substances

Packing group (IMDG) : III - substances presenting low danger

EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B

Air transport

IATA

Transport hazard class(es) (IATA) : 8



Marine pollutant : No UN-No. (IATA) : 1805

Transport document description (IATA) : UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III

Class (IATA) : 8 - Corrosives
Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Phosphoric acid (7664-38-2)	
CERCLA RQ	5000 lb

15.2. International regulations

CANADA

Phosphoric acid (7664-38-2)

Listed on the Canadian DSL (Domestic Substances List) inventory

National regulations

Phosphoric acid (7664-38-2)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on Taiwan National Chemical Inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Chinese Catalog of Hazardous Chemicals

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

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15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Phosphoric acid (7664-38-2)

- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: Other information

Revision date : 08/12/2016

Data sources : European Chemicals Agency (ECHA) C&L Inventory database. Accessed at

http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database.

National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th

edition.

Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing",

Fifth Edition.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None.

Full text of H-statements:

H290	May be corrosive to metals
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage

Abbreviations and acronyms:

ACGIH (American Conference of Government Industrial Hygienists)
ATE: Acute Toxicity Estimate
CAS (Chemical Abstracts Service) number
CLP: Classification, Labelling, Packaging.
GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
OSHA: Occupational Safety & Health Administration
TSCA: Toxic Substances Control Act

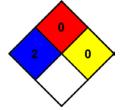
NFPA health hazard : 2 - Intense or continued exposure could cause temporary

incapacitation or possible residual injury unless prompt medical attention is given.

: 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and not reactive with water.



Indication of changes: Product identifier.

NFPA fire hazard

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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