

Safety Data Sheet

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

Date of issue: 01/11/2024 Version: 1.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : Simplot Phosphoric Acid 28% Industrial Grade

Product code : M80561

1.2. Recommended use and restrictions on use

1.3. Supplier

JR Simplot Company P.O. Box 70013 Boise, ID 83707 T 1-208-336-2110

1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Corrosive to metals Category 1 H290 May be corrosive to metals Acute toxicity (dermal) Category 4 H312 Harmful in contact with skin

Skin corrosion/irritation Category 1 H314 Causes severe skin burns and eye damage

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)





Signal word (GHS US) : Danger

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

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS US) : P234 - Keep only in original container.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P302+P352 - If on skin: Wash with plenty of water

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 poison center or doctor

P312 - Call a poison center or doctor if you feel unwell
P321 - Specific treatment (see supplemental first aid instruction on this label)

P322 - Specific treatment (see supplemental first aid instruction on this label) P362+P364 - Take off contaminated clothing and wash it before reuse.

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 ...in accordance with local/regional/national regulations

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Other hazards which do not result in classification

No additional information available

Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

Substances

Not applicable

3.2. **Mixtures**

Name	Product identifier	%	GHS US classification
phosphoric acid (7664-38-2)	(CAS-No.) 7664-38-2	28	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

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). Call a physician immediately.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. 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

: Immediately call a poison center or doctor/physician. Specific measures (see supplemental first aid instruction on this label). Wash with plenty of soap and water. Wash contaminated clothing before reuse. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact

: Immediately call a poison center or doctor/physician. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician

First-aid measures after ingestion

: Do NOT induce vomiting. Immediately call a poison center or doctor/physician. Rinse mouth. Do not induce vomiting. Call a physician immediately.

Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms

: Based on available data, the classification criteria are not met. Harmful in contact with skin.

Symptoms/effects

: Causes severe skin burns and eye damage.

Symptoms/effects after skin contact

: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Burns.

Symptoms/effects after eye contact

Serious damage to eyes.

Symptoms/effects after ingestion

Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media Unsuitable extinguishing media : Sand. Water spray. Dry powder. Foam. Carbon dioxide.

: Do not use a heavy water stream.

Specific hazards arising from the chemical

Hazardous decomposition products in case of fire

: Toxic fumes may be released.

Special protective equipment and precautions for fire-fighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting

Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures

: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin, eyes and

clothing. Do not breathe dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with

proper protection. For further information refer to section 8: "Exposure controls/personal

protection".

: Ventilate area. **Emergency procedures**

Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or Methods for cleaning up

diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Absorb spillage to prevent material-damage.

Other information : Dispose of materials or solid residues at an authorized site.

Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Additional hazards when processed : May be corrosive to metals.

Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid contact during pregnancy/while nursing. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Do

not breathe dust/fume/gas/mist/vapors/spray.

Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before Hygiene measures

reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling

the product.

Conditions for safe storage, including any incompatibilities

: Comply with applicable regulations. Technical measures

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container

closed when not in use. Store in corrosive resistant container with a resistant inner liner. Keep

only in original container. Store locked up. Store in a well-ventilated place. Keep cool.

: Strong bases. Strong acids. Incompatible products

Incompatible materials Sources of ignition. Direct sunlight. Metals.

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

SECTION 8: Exposure controls/personal protection

Control parameters

Simplot Phosphoric Acid 28% Industrial Grade		
No additional information available		
phosphoric acid (7664-38-2) (7664-38-2)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³)	1 mg/m³	
ACGIH STFL (mg/m³)	3 mg/m³	

Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

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8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or face shield. Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Color : Green

Odor : Odorless when cold; pungent when hot.

Odor threshold : No data available

pH : <1

Melting point : Not applicable
Freezing point : No data available

Boiling point : Approx. 270°F @ 1 atmosphere

Flash point : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : Non flammable.
Vapor pressure : 5.0 @ 78°F
Relative vapor density at 20 °C : No data available
Relative density : No data available

Solubility : Soluble.

Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic No data available **Explosion limits** Explosive properties : No data available Oxidizing properties : No data available

9.2. Other information

Bulk density : 11.12 lbs/gal

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates: Corrosive vapors.

10.2. Chemical stability

Not established.

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Possibility of hazardous reactions

Exothermal reaction with water, produces heat.

Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

Incompatible materials

Strong acids. Strong bases. May be corrosive to metals. metals.

Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates: Corrosive vapors.

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

: Not classified Acute toxicity (oral)

Acute toxicity (dermal) : Harmful in contact with skin.

Acute toxicity (inhalation) : Not classified

ATE US (dermal)	1466.667 mg/kg body weight
phosphoric acid (7664-38-2) (7664-38-2)	
LD50 oral rat	1530 mg/kg (Rat)
LD50 dermal rat	≥ 1260 mg/kg body weight

Skin corrosion/irritation : Causes severe skin burns.

pH: < 1

Serious eye damage/irritation : Assumed to cause serious eye damage

pH: < 1

Respiratory or skin sensitization : Not classified 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 : Not classified

exposure

Aspiration hazard : Not classified : No data available Viscosity, kinematic

Potential Adverse human health effects and

: Based on available data, the classification criteria are not met. Harmful in contact with skin.

symptoms

Symptoms/effects

: Causes severe skin burns and eye damage.

Symptoms/effects after skin contact

: Repeated exposure to this material can result in absorption through skin causing significant

health hazard. Harmful in contact with skin. Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

SECTION 12: Ecological information

Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

phosphoric acid (7664-38-2) (7664-38-2)	
LC50 fish 1	138 mg/l (96 h; Pisces; Pure substance)
LC50 other aquatic organisms 1	240 mg/l (96 h; Protozoa; Pure substance)
LC50 fish 2	100 – 1000 mg/l (Pisces; Pure substance)
LC50 other aquatic organisms 2	100 – 1000 mg/l (Pure substance)
TLM fish 1	138 ppm (24 h; Gambusia affinis; Pure substance)
Threshold limit other aquatic organisms 1	240 mg/l (96 h; Protozoa; Pure substance)
Threshold limit other aquatic organisms 2	100 - 1000, Pure substance

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12.2. Persistence and degradability

implot Phosphoric Acid 28% Industrial Grade	
Persistence and degradability	Not established.
phosphoric acid (7664-38-2) (7664-38-2)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components available. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

12.3. Bioaccumulative potential

Simplot Phosphoric Acid 28% Industrial Grade	
Bioaccumulative potential	Not established.
phosphoric acid (7664-38-2) (7664-38-2)	
Partition coefficient n-octanol/water (Log Pow)	-0.77 (Estimated value)
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid unintentional release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Ecology - waste materials

Waste treatment methods

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Product/Packaging disposal recommendations
- : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- : Avoid unintentional release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Simplot Phosphoric Acid 28% Industrial Grade

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

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

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

15.2. International regulations

CANADA

phosphoric acid (7664-38-2) (7664-38-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

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

Component	State or local regulations
phosphoric acid (7664-38-2)(7664-38-2)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Other information : None.

Full text of H-phrases:

the state of the s	
H290	May be corrosive to metals
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage

SDS US (GHS HazCom 2012)

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