

# **Safety Data Sheet** PH DOWN

SDS Number: 901 **Revision:** January 17, 2019

## Section 1 · IDENTIFICATION

PH DOWN **Product Name** 

Other Identification Soluble fertilizer solution.

**Recommended Use** Agricultural Industry - Fertilizer use.

Manufacturer

Company Name Custom Ag Formulators, Inc.

Address 3430 S Willow Ave, Fresno, CA 93725, United States

(800) 355-4457 Telephone Website www.4caf.com

**Emergency Contacts** Custom Ag Formulators, Inc. (559) 435-1052

> **CHEMTREC** (800) 424-9300 (Domestic)

(703) 527-3887 (International)

# Section 2 · HAZARD(S) IDENTIFICATION

#### Classification of the Substance or Mixture

#### **Classification (GHS-US)**

Met. Corr. 1 H290 Acute Tox. 4 (Oral) H302 Skin Corr. 1B H314 Eye Dam. 1 H318 STOT RE 2 H373 Aquatic Chronic 3 H412 Full text of H-phrases: see section 16

#### **Label Elements**

#### **GHS-US Labeling**

Hazard **Pictograms** (GHS-US)







Signal Word : Danger

Hazard : H290 - May be corrosive to metals. **Statements** H302 - Harmful if swallowed. (GHS-US)

H314 - Causes severe skin burns and

eye damage.

H318 - Causes serious eye damage. H373 - May cause damage to



Statements (GHS-US)

**Precautionary**: P234 - Keep only in original container. P260 - Do not breathe vapors, mist, or

spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after

handling.

P270 - Do not eat, drink or smoke

when using this product. P273 - Avoid release to the

environment.

P280 - Wear protective gloves, protective clothing, and eye protection.

P301+P312 - IF SWALLOWED: Call a poison center or doctor if you feel unwell.

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 at rest in a position comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and

#### Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. This material or its emissions may defat skin, cause contact dermatitis, or aggravate existing skin disease. When mixing, always add acid to water, NEVER add water to acid. Adding water to acid may cause a violent exothermic reaction.

## **Unknown Acute Toxicity (GHS-US)**

No data available



## Section 3 · COMPOSITION/INFORMATION ON INGREDIENTS

**Mixtures** 

Chemical Name Common Name & Synonyms CAS Number %

Phosphoric Acid N/A 7664-38-2 Proprietary

Section 4 · FIRST-AID MEASURES

**Inhalation** When symptoms occur: go into open air and ventilate suspected area. Call a

POISON CENTER or doctor/physician if you feel unwell.

**Skin Contact** Remove contaminated clothing. Drench affected area with water for at

least 15 minutes. Obtain medical attention if irritation develops or persists.

Wash contaminated clothing before reuse.

**Eye Contact** Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing for at least 60 minutes.

Immediately call a POISON CENTER or doctor/physician.

Ingestion Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER

or doctor.

**General Information** Ensure that medical personnel are aware of the material(s) involved, and

take precautions to protect themselves. Show this safety data sheet to the

doctor in attendance.

Section 5 · FIRE-FIGHTING MEASURES

**Suitable extinguishing** Not flammable, use media suitable for combustibles involved in fire.

Unsuitable extinguishing

None known.

Specific hazards arising from the chemical

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: May react violently with oxidants, causing fire and explosion

hazard.

Special protective equipment and precautions for firefighters

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Firefighters must wear NIOSH/MSHA approved positive pressure selfcontained breathing apparatus with full face mask and full protective

clothing.

Fire-fighting equipment/instructions

Use water spray or fog for cooling exposed containers. Do not breathe fumes from fires or vapors from decomposition. Do not allow run-off from

firefighting to enter drains or water courses.

**Specific methods**Use standard firefighting procedures and consider the hazards of other

involved materials.



**General fire hazards** Do not enter fire area without proper protective equipment, including

respiratory protection.

#### Section 6 · ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid all contact with skin, eyes, or clothing. Avoid breathing vapor, mist, or spray. Use appropriate personal protection equipment (PPE). Evacuate unnecessary personnel.

#### Methods and materials for containment and cleaning up

Large Spills Clean up spills immediately and dispose of waste safely. Absorb and/or

contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material. If spilled directly onto the ground, remove sufficient soil to ensure material is

fully recovered. Contact competent authorities after a spill.

Small Spills Contain any spills with dikes or absorbents to prevent migration and entry

into sewers or streams.

Environmental precautions

Prevent entry to sewers and public waters.

## Section 7 · HANDELING & STORAGE

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Use appropriate personal protection equipment (PPE). Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist, and spray. Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

Conditions for safe storage, including any incompatibilities

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Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up.

*Incompatible Products:* Strong acids. Strong bases. Strong oxidizers. Acetaldehyde. Chlorine. Ethylene oxide. Isocyanates. Peroxides. Bromine.

## Section 8 · EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure	Chemical	OSH	OSHA PELs		ACGIH TLVs	
limits		TWA	STEL/C	TLV	STEL	
	Phos Acid	1 mg/m3		3/mg/m3		
Biological limit values	No biological exposure limits noted for the ingredient(s).					



**Appropriate** Emergency eye wash fountains should be available in the immediate engineering controls vicinity of any potential exposure. Ensure adequate ventilation, especially

in confined areas. Ensure all national/local regulations are observed.

Personal protective equipment (PPE)

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection Neoprene rubber gloves and apron should be worn to prevent repeated or

prolonged contact with the liquid. Wash contaminated clothing prior to

reuse.

Hand protection Wear appropriate chemical resistant gloves.

Respiratory protection None generally required. If conditions exist where mist may be generated,

a NIOSH/MSHA approved mist respirator should be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

There are no known hazards associated with this product when use as recommended, however common good industrial hygiene practices should be followed, such as washing thoroughly after handling and before eating

or drinking.

## Section 9 · PHYSICAL & CHEMICAL PROPERTIES

AppearanceClear, liquid.OdorLow odor.Odor thresholdN/ApH1.0-2.0

Melting point/freezing point Salt Out Temperature < 5 °F (< -15 °C)

Initial boiling point and boiling range > 222 °F (> 106 °C)

Flash point N/A
Evaporation rate N/A
Flammability (solid, gas) N/A
Upper/lower flammability or explosive limits

Flammability limit - lower (%) N/A
Flammability limit - upper (%) N/A
Explosive limit - lower (%) N/A
Explosive limit - upper (%) N/A

Vapor density N/A
Relative density N/A
Specific gravity 1.07-1.09

Solubility(ies)

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Solubility (water) 100%

Partition coefficient (n-octanol/water) N/A
Auto-ignition temperature N/A
Decomposition temperature N/A
Viscosity N/A

## Section 10 · STABILITY & REACTIVITY

**Reactivity** Avoid interaction with heat (flames), oxidizers or acids.

**Chemical stability** Material is stable under normal conditions.



Possibility of hazardous

reactions

Hazardous polymerization will not occur.

Conditions to avoid

Direct sunlight. Extremely high, above 120 °F (48.9 °C). Sources of ignition.

Incompatible materials.

**Incompatible materials** 

Strong oxidizers. This product is not compatible with lead or mercury or their alloys. These materials of construction should not be used in handling

systems or storage containers for this product.

Hazardous decomposition products

None know.

## Section 11 · TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Ingestion Not determined. Inhalation Not determined. Skin Contact Not determined. Eye Contact Not determined.

Symptoms related to the physical, chemical

and toxicological characteristics

Not determined.

Information on toxicological effects:

Not determined. **Acute toxicity** 

Skin

corrosion/irritation

Causes severe skin burns.

Serious eye

damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory

sensitization

Not determined.

Skin sensitization

Not determined.

Germ cell mutagenicity

No data available to indicate product or any components present at

greater than 0.1% are mutagenic or genotoxic

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or

OSHA.

**OSHA Specifically** 

Not listed.

**Regulated Substances** 

Reproductive toxicity

This product is not expected to cause reproductive or developmental

effects

Specific target organ

Not classified.

toxicity - single

exposure

Specific target organ

Not classified.

toxicity - repeated

exposure



**Aspiration hazard** Not available.

#### Section 12 · ECOLOGICAL INFORMATION

**Ecotoxicity**No data available. **Persistence and**No data available.

degradability

Bio accumulative No data

potential

No data available.

**Mobility in soil** No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion,

photochemical ozone creation potential, endocrine disruption, global

warming potential) are expected from this component.

## Section 13 · DISPOSAL CONSIDERATION

**Disposal instructions** Consult federal, state and local regulations for disposal requirements.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be

disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue,

follow label warnings even after container is emptied.

## Section 14 · TRANSPORT INFORMATION

General Not DOT regulated in domestic (USA ground) transportation in package

sizes less than 3,550 lbs (317 gallons); 1,610 kg (1,200 liters). The DOT transportation information below is for shipments with package sizes equal

to or exceeding this value. IMDG Regulated Marine Pollutant.

#### **DOT - Basic shipping requirements:**

UN number UN3264

DOT Label

Proper shipping name Corrosive Liquid, Acidic, Inorganic, n.o.s, (Phosphoric Acid)

Hazard class Corrosive (8)

Packing group III

# **IMGD** - Basic shipping requirements:

UN number Not regulated for transport

IMGD Label Not regulated for transport

Proper shipping name Not regulated for transport

Hazard class Not regulated for transport Packing group Not regulated for transport

EMS NO Not regulated for transport

## IATA - Basic shipping requirements:

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UN number Not regulated for transport



Proper shipping name Not regulated for transport

Hazard class Not regulated for transport
Packing group Not regulated for transport
OCAP Not regulated for transport

**Environmental hazards** 

Marine pollutant N/A

**Special precautions** Read safety instructions, SDS and emergency procedures before handling.

If shipped in single container > 1,724 gallons, ship as RQ, Corrosive Liquid,

Acidic, Inorganic, n.o.s., (Phosphirc Acid,) 8, PG III 'ERG # 154

Section 15 · REGULATORY INFORMATION

**US federal regulations** This product is not known to be a "Hazardous Chemical" as defined by the

OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Proposition 65 (CA)** Warning: This product contains chemicals known to the State of California

to cause cancer and birth defects or other reproductive harm.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Reportable Quantity Not applicable

SARA 304 Emergency release notification Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard Yes

Delayed Hazard No
Fire Hazard No
Pressure Hazard No
Reactivity Hazard No

SARA 302 Extremely hazardous substance

Not listed

SARA 311/312 Hazardous chemical Immediate (acute) health hazard

#### Section 16 · OTHER INFORMATION

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**Disclaimer** The above information is based on data of which the manufacturer is aware and is

believed to be correct as of the date hereon. Since the information contained herein may be applied under conditions beyond the manufacturer's control and which may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, the manufacturer does not assume any responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material

for his particular purpose.