

# Safety Data Sheet **PH UP**

SDS Number: 902 Revision: January 17, 2019

#### Section 1 · IDENTIFICATION

Product Name PH UP

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

Telephone (800) 355-4457 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)

ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1 AQUATIC HAZARD (ACUTE)- Category 3 AQUATIC HAZARD (LONG TERM)-Category 3

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Full text of H-phrases: see section 16

#### **Label Elements**

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

Hazard Pictograms (GHS-US)





D - - - - -

Signal Word : Danger

Hazard Statements (GHS-US) : H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage.

H412 – Harmful to aquatic life with long lasting effects

H373 - May cause



Precautionary: P264 - Wash hands, Statements (GHS-US)

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. 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.

#### Other Hazards

Exposure may aggravate those with preexisting 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 CAS Number** % Common Name & Synonyms

Potassium Hydroxide N/A 1310-58-3 >25% -<40%

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.

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

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

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

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 acids.

Special protective equipment and precautions for firefighters

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

clothing.

Fire-fighting

Use water spray or fog for cooling exposed containers. Do not breathe equipment/instructions

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

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	OSHA PELs		ACGIH TLVs	
limits		TWA	STEL/C	TLV	STEL
	Potassium Hydroxide	2 mg/m3		2/mg/m3	
Biological limit values	No biological exposure limits noted for the ingredient(s).				
Appropriate engineering controls	Emergency eye wash fountains should be available in the immediate 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

Appearance Clear, liquid.
Odor Low odor.

Odor threshold N/A
pH Basic
Melting point/freezing point N/A

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 densityN/ARelative densityN/ASpecific gravity1.3

Solubility(ies)

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 acids. 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. Eve 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

Not determined. sensitization

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

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

OSHA.

**OSHA Specifically** 

Not listed.

**Regulated Substances** 

Reproductive toxicity

This product is not expected to cause reproductive or developmental

effects

Specific target organ

toxicity - single

Not classified.

exposure

Specific target organ

Not classified.

toxicity - repeated exposure

**Aspiration hazard** Not available.

#### Section 12 · ECOLOGICAL INFORMATION

No data available. **Ecotoxicity** 



Persistence and degradability

No data available.

Bio accumulative

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 3448.3 lbs); 1565.5 kg . 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 UN1814

DOT Label

Proper shipping name Corrosive Liquid, SOLUTION RQ, (Potassium Hydroxide)

Hazard class Corrosive (8)

Packing group II

#### **IMGD** - Basic shipping requirements:

UN number UN1814

Proper shipping name Corrosive Liquid, SOLUTION RQ, (Potassium Hydroxide)

Hazard class Corrosive (8)

Packing group II

EMS NO F-A, S-B

#### IATA - Basic shipping requirements:

UN number UN1814

Proper shipping name Corrosive Liquid, SOLUTION RQ, (Potassium Hydroxide)

Hazard class Corrosive (8)

Packing group II

OCAP

#### **Environmental hazards**

Product Name: PH UP

Issue Date: 1/17/19



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) N/A

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

Issue date January 17, 2019

**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.