



## Safety Data Sheet **PH UP**

SDS Number: 902 Revision: June 23, 2023

### 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

Full text of H-phrases: see section 16

**Label Elements**

**GHS-US Labeling**

**Hazard** :  
**Pictograms**  
**(GHS-US)**



GHS05



GHS07

**Signal Word** : Danger  
**Hazard** : H302 - Harmful if swallowed.  
**Statements** H314 - Causes severe skin  
**(GHS-US)** burns and eye damage.  
H412 - Harmful to aquatic  
life with long lasting effects  
H373 - May cause



**Precautionary Statements (GHS-US)**

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.

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 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

<i>Chemical Name</i>	<i>Common Name &amp; Synonyms</i>	<i>CAS Number</i>	<i>%</i>
Potassium Hydroxide	N/A	1310-58-3	>25% -<40%

### Section 4 • FIRST-AID MEASURES

<b>Inhalation</b>	When symptoms occur: go into open air and ventilate suspected area. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Skin Contact</b>	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.
<b>Eye Contact</b>	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.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor.
<b>General Information</b>	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

<b>Suitable extinguishing</b>	Not flammable, use media suitable for combustibles involved in fire.
<b>Unsuitable extinguishing</b>	None known.
<b>Specific hazards arising from the chemical</b>	<i>Fire Hazard:</i> Not considered flammable but may burn at high temperatures. <i>Explosion Hazard:</i> Product is not explosive. <i>Reactivity:</i> May react violently with acids.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.
<b>Fire-fighting equipment/instructions</b>	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.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	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 • HANDLING & 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 limits	Chemical	OSHA PELs		ACGIH TLVs	
		TWA	STEL/C	TLV	STEL
	Potassium Hydroxide	2 mg/m <sup>3</sup>		2/mg/m <sup>3</sup>	
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)

<i>Eye/face protection</i>	Wear safety glasses with side shields (or goggles) and a face shield.
<i>Skin protection</i>	Neoprene rubber gloves and apron should be worn to prevent repeated or prolonged contact with the liquid. Wash contaminated clothing prior to reuse.
<i>Hand protection</i>	Wear appropriate chemical resistant gloves.
<i>Respiratory protection</i>	None generally required. If conditions exist where mist may be generated, a NIOSH/MSHA approved mist respirator should be worn.
<i>Thermal hazards</i>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	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

<b>Appearance</b>	Clear, liquid.
<b>Odor</b>	Low odor.
<b>Odor threshold</b>	N/A
<b>pH</b>	Basic
<b>Melting point/freezing point</b>	N/A
<b>Initial boiling point and boiling range</b>	> 222 °F (> 106 °C)
<b>Flash point</b>	N/A
<b>Evaporation rate</b>	N/A
<b>Flammability (solid, gas)</b>	N/A
<b>Upper/lower flammability or explosive limits</b>	
<i>Flammability limit - lower (%)</i>	N/A
<i>Flammability limit - upper (%)</i>	N/A
<i>Explosive limit - lower (%)</i>	N/A
<i>Explosive limit - upper (%)</i>	N/A
<b>Vapor density</b>	N/A
<b>Relative density</b>	N/A
<b>Specific gravity</b>	1.3
<b>Solubility(ies)</b>	
<i>Solubility (water)</i>	100%
<b>Partition coefficient (n-octanol/water)</b>	N/A
<b>Auto-ignition temperature</b>	N/A
<b>Decomposition temperature</b>	N/A
<b>Viscosity</b>	N/A

## Section 10 · STABILITY & REACTIVITY

<b>Reactivity</b>	Avoid interaction with heat (flames), oxidizers or acids.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization will not occur.
<b>Conditions to avoid</b>	Direct sunlight. Extremely high, above 120 °F (48.9 °C). Sources of ignition. Incompatible materials.



<b>Incompatible materials</b>	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.
<b>Hazardous decomposition products</b>	None know.

## Section 11 • TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

<i>Ingestion</i>	Not determined.
<i>Inhalation</i>	Not determined.
<i>Skin Contact</i>	Not determined.
<i>Eye Contact</i>	Not determined.

<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Not determined.
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### Information on toxicological effects:

<b>Acute toxicity</b>	Not determined.
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<b>Skin corrosion/irritation</b>	Causes severe skin burns.
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<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.
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### Respiratory or skin sensitization

<i>Respiratory sensitization</i>	Not determined.
<i>Skin sensitization</i>	Not determined.

<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic
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<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
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<b>OSHA Specifically Regulated Substances</b>	Not listed.
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<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects
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<b>Specific target organ toxicity - single exposure</b>	Not classified.
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<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
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<b>Aspiration hazard</b>	Not available.
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## Section 12 • ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	No data available.
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<b>Persistence and degradability</b>	No data available.
<b>Bio accumulative potential</b>	No data available.
<b>Mobility in soil</b>	No data available.
<b>Other adverse effects</b>	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

<b>Disposal instructions</b>	Consult federal, state and local regulations for disposal requirements.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Waste from residues / unused products</b>	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).
<b>Contaminated packaging</b>	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

#### DOT - Basic shipping requirements:

<i>UN number</i>	UN1814
<i>DOT Label</i>	
<i>Proper shipping name</i>	Corrosive Liquid, SOLUTION RQ, (Potassium Hydroxide)
<i>Hazard class</i>	Corrosive (8)
<i>Packing group</i>	II

#### IMGD - Basic shipping requirements:

<i>UN number</i>	UN1814
<i>Proper shipping name</i>	Corrosive Liquid, SOLUTION RQ, (Potassium Hydroxide)
<i>Hazard class</i>	Corrosive (8)
<i>Packing group</i>	II
<i>EMS NO</i>	F-A, S-B

#### IATA - Basic shipping requirements:

<i>UN number</i>	UN1814
<i>Proper shipping name</i>	Corrosive Liquid, SOLUTION RQ, (Potassium Hydroxide)
<i>Hazard class</i>	Corrosive (8)
<i>Packing group</i>	II
<i>OCAP</i>	

#### Environmental hazards

<i>Marine pollutant</i>	N/A
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**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., ((Potassium Hydroxide,) 8, PG II

## 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)**

<i>Hazard categories</i>	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** June 23, 2023

**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.