

Safety Data Sheet


ADVANCE PH 0-13-5

SDS Number: 202 **Revision:** February 9, 2017

Section 1 · IDENTIFICATION

Product Name	Advance PH 0-13-5	
<i>Other Identification</i>	Phosphoric Acid, potassium phosphate, zinc sulfate, boric acid, copper sulfate and cobalt sulfate.	
Recommended Use	Agricultural Industry – Fertilizer use	
Manufacturer		
<i>Company Name</i>	Custom Ag Formulators, Inc.	
<i>Address</i>	3430 S Willow Ave, Fresno, CA 93725, United States	
<i>Telephone</i>	(800) 355-4457	
<i>Website</i>	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

Signal Word	Warning
<i>Label</i>	
Physical Hazards	Not Classified.
Health Hazards	Category 3
Reactivity Hazards	Category 4
Environmental Hazards	Category 5
Flammability Hazards	Category 5
OSHA Defined Hazards	Not Classified.
Hazard Statement	H302 - Harmful if swallowed H312 - Harmful in contact with skin H320 - Causes eye irritation H333 - May cause respiratory irritation
Storage	P403+P233 - Store in a well-ventilated place. Keep container tightly closed
Disposal	P501 - Dispose of contents/container to ... specify in accordance with local/regional/national regulations

Section 3 · COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical Name	Common Name & Synonyms	CAS Number	%
Copper Sulfate	N/A	13578-36-2	Proprietary
Phosphoric acid	N/A	10124-43-3	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	<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 oxidants, causing fire and explosion hazard.
Special protective equipment and precautions for firefighters	Firefighters must wear NIOSH/MSHA approved positive pressure self-contained 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

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

No exposure limits noted for ingredient(s).

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.

<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.
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	Dark brown, liquid.
Odor	Organic sulfur odor.
Odor threshold	N/A
pH	1.58
Melting point/freezing point	N/A
Initial boiling point and boiling range	> 212 °F (> 100 °C)
Flash point	N/A
Evaporation rate	N/A
Flammability (solid, gas)	N/A
Upper/lower flammability or explosive limits	
<i>Flammability limit - lower (%)</i>	N/A
<i>Flammability limit - upper (%)</i>	N/A
Explosive limit - lower (%)	N/A
Explosive limit - upper (%)	N/A
Vapor density	N/A
Relative density	10.51 lbs/gal
Specific gravity	N/A
Solubility(ies)	
<i>Solubility (water)</i>	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	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions
Possibility of hazardous reactions	Hazardous polymerization will not occur
Conditions to avoid	Direct sunlight, heating above 120°F (48.9°C). 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 known.

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:

Acute toxicity Not determined.

Skin corrosion/irritation Not determined.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization May cause an allergic skin reaction
Skin sensitization May cause an allergic skin reaction

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 Regulated Substances Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not available.

Section 12 · ECOLOGICAL INFORMATION

Ecotoxicity No data available.



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 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* Not regulated for transport
- DOT Label* Not regulated for transport
- Proper shipping name* Not regulated for transport
- Hazard class* Not regulated for transport
- Packing group* Not regulated for transport

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:

- 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.

Section 15 • REGULATORY INFORMATION

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. 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)

<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)

Section 16 • OTHER INFORMATION

Issue date February 9, 2017

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.