

# Safety Data Sheet ADVANCE 11-8-4

SDS Number:	201	<b>Revision:</b>	February 9, 2017
Section 1 · IDENTIFICATION			
<b>Product Name</b> Other Identification	Advance 11-8-4 N-P-K Fertilizer solution		
Recommended Use	Agricultural Industry – Fe	ertilizer use	
Manufacturer			
	Custom Ag Formulators, Inc. 3430 S Willow Ave, Fresno, CA 93725, United States (800) 355-4457 www.4caf.com		
Emergency Contacts	Custom Ag Formulators,	Inc. (55	9) 435-1052
	CHEMTREC	•	0) 424-9300 (Domestic) 3) 527-3887 (International)

# Section 2 · HAZARD(S) IDENTIFICATION

Signal Word	Warning
Label	
Physical Hazards	Not Classified.
Health Hazards	Category 1
Reactivity Hazards	Category 0
Environmental Hazards	Category 0
Flammability Hazards	Category 0
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	%
Ammonium Hydroxide	N/A	7664-41-7	Proprietary
Potassium Nitrate	N/A	7757-79-1	Proprietary
Phosphoric acid	N/A	7664-38-2	Proprietary
Urea	N/A	57-13-6	Proprietary
Sodium Tetraborate	N/A	1330-43-4	Proprietary
Cobalt Sulfate	N/A	10124-43-3	Proprietary
Sodium Molybdate	N/A	7790-62-7	Proprietary
Copper EDTA	N/A	14025-15-1	Proprietary
Iron EDTA	N/A	15708-41-5	Proprietary
Manganese EDTA	N/A	15375-84-5	Proprietary
Zinc EDTA	N/A	14025-21-9	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.	
	<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.
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#### 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	<i>Storage Conditions:</i> 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).		
<b>Biological limit values</b>	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 equip	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	Dark brown, liquid.
Odor	Organic sulfur odor.
Odor threshold	N/A
рН	5.3-6.2
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 l	imits
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	11.18 lbs/gal
Specific gravity	1.41
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	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 rou	tes 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 toxicolog	ical 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	Not listed.	
<b>Regulated Substances</b>		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects	
Specific target organ toxicity - single exposure	Not classified.	



Specific target organNot classified.toxicity - repeatedexposureAspiration hazardNot 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				
<b>Disposal instructions</b>	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:**

sport				
sport				
IMGD - Basic shipping requirements:				
sport				
sport				



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 Communication Standard, 29 CFR 1910.1200. All com U.S. EPA TSCA Inventory List. This product is not know Chemical" as defined by the OSHA Hazard Communic CFR 1910.1200.	ponents are on the vn to be a "Hazardous	
Proposition 65 (CA)		ning: This product contains chemicals known to the State of California nuse 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 1910.10	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)			

#### Section 16 · OTHER INFORMATION

Issue dateFebruary 9, 2017DisclaimerThe above information is based on data of which the manufacturer is aware and is<br/>believed to be correct as of the date hereon. Since the information contained herein<br/>may be applied under conditions beyond the manufacturer's control and which may be<br/>unfamiliar and since data made available subsequent to the date hereof may suggest<br/>modifications of the information, the manufacturer does not assume any responsibility<br/>for the results of its use. This information is furnished upon the condition that the<br/>person receiving it shall make his own determination of the suitability of the material<br/>for his particular purpose.