


SECTION 1 IDENTIFICATION

Company Name	KALO, Inc.	24 HOUR EMERGENCY NUMBER/CHEMTREC (USA) 1-800-424-9300 Poison Control Center (USA) 1-800-222-1212
Address	13200 Metcalf Ave, Suite 250	
City, State, Zipcode	Overland Park, KS 66213	
Phone Numbers	1-800-255-5196 / 1-913-491-9146 (fax)	
Website	www.kalo.com	
Product Identity	One-Ap XL	
Reference/Item Number	OAXL45	
Product Description	Ammonium sulfate, nonionic surfactant, deposition aid, antifoaming agent.	
Chemical Family	Dry water soluble spray adjuvant for glyphosates & residual herbicide combinations.	

SECTION 2 HAZARD(S) IDENTIFICATION

Using the toxicity data listed in Sections 11 and 12, the product is labeled as follows:		HAZARD COMMUNICATION STANDARD (HCS) PICTOGRAM(S)  WARNING
[Acute Toxicity (oral) 4]:		
H303:	May be harmful if swallowed.	
[Acute Toxicity (dermal) 5]:		
H313:	May be harmful in contact with skin.	
[Skin Irritation 3]:		
H316:	Causes mild skin irritation.	
[Eye Irritation 2A]:		
H319:	Causes serious eye irritation.	
[PREVENTION]:		
P264:	Wash hands, face and other affected areas thoroughly after handling.	
P270:	Do not eat, drink or smoke when using this product.	
[RESPONSE]:		
P312:	Call a POISON CENTER or doctor/physician if you feel unwell.	
P332+313:	If skin irritation occurs; get medical advice/attention.	
P305+351+338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do; continue rinsing.	
P337+313:	If eye irritation persists, get medical advice/attention.	
[DISPOSAL]:		
P501:	Dispose of contents/container in accordance with local/national regulations.	
Sensitization:	Not a skin sensitizer.	
Comments Health:	Read all precautions of products being handled and follow the most restrictive language for all products to provide the safest work environment.	
Comments:	KEEP OUT OF REACH OF CHILDREN	

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

This product is labeled with the following GHS classifications, as it contains substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations. This product is a proprietary blend and the ingredients and mixture percentages are being withheld as confidential business information.

<u>Ingredient/Chemical Designations</u>	<u>Weight %</u>	<u>CAS#</u>
Ammonium sulfate, block polymer of carbonyl diamine, polyoxyethylene polyoxypropylene, beta-hydroxy-tricarboxylic acid, polyacrylamide polymer, dimethylsiloxane	98.73	Mixture

SECTION 4

FIRST AID MEASURES

[DESCRIPTIONS]:

General:	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation:	Move individual to fresh air. If individual is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.
Eyes:	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses if present, after the first 5 minutes then continue rinsing eyes. Call a poison control center or doctor for treatment advice.
Skin:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
Ingestion:	Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.
Notes to Physician:	All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
Additional Information:	Have the product container or label with you when calling a poison control center or doctor, or going in for treatment. For emergency medical assistance call CHEMTREC 1-800-424-9300.

[MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED]:

Overview:	No data available. See Section 2 for further details.
Eyes:	Causes serious eye irritation.
Skin:	May be harmful in contact with skin. Causes mild skin irritation.
Ingestion:	May be harmful if swallowed.

SECTION 5

FIRE FIGHTING MEASURES

Extinguishing Media:	Foam, dry chemical, carbon dioxide, water spray or fog.
Hazardous Combustion Products:	Hydrogen cyanide, carbon monoxide, and ammonia may be emitted.
Explosion Hazards:	Dust suspended in air may create a potentially explosive environment.
Firefighting Procedures:	Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Explosive vapor could form from ruptured containers. Dike and collect water used to fight fire to prevent environmental damage due to run-off. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water run-off.
Firefighting Equipment:	As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Small Spill:	Contain material. Sweep up spilled material which is contaminated and place it and damaged unusable containers in a container appropriate for non-hazardous chemical waste. Check local, state, and federal regulations for proper disposal.
Large Spill:	Contain material. If material is not contaminated with other materials the product may still be viable for use. Sweep up spilled material which is contaminated and place it and damaged unusable containers in a container appropriate for non-hazardous chemical waste. Check local, state, and federal regulations for proper disposal.
Water Spill:	Do not contaminate any body of water.
Land Spill:	Avoid run-off onto any adjacent land.
Special Protective Equipment:	Always wear proper protective equipment when handling this product.

SECTION 7

HANDLING AND STORAGE

Handling:	Avoid breathing vapors and mists. Avoid prolonged contact with skin and eyes.
Storage:	Store in tightly closed in original labeled bag. Store in a dry, well-ventilated area away from ignition sources and incompatible materials.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.
Personal Protective Equipment Eyes and Face:	Wear chemical goggles or shielded safety glasses (ANSI Z87.1 or approved equivalent) when handling and mixing product. Contact lenses should not be worn when working with chemicals.
Personal Protective Equipment Skin Protection:	Wear protective clothing: long-sleeved shirt and long pants, shoes plus socks and chemical-resistant gloves. Always refer to the label of the pesticide(s) in the tank mix and follow the most restrictive requirements.
Personal Protective Equipment Respiratory Protection:	Work in a well-ventilated area. Avoid exposure to airborne contaminants. Wear a NIOSH/MSHA approved dust mask or filter when vapors or dust are generated above the permissible limit above the TLV (see comments below).
Personal Protective Equipment Protective Clothing:	Eye protection, long-sleeved shirt and long pants, shoes plus socks and chemical resistant gloves. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.
Other Use Precautions:	Avoid contact with skin, eyes, and clothing. Avoid breathing vapors. Wash thoroughly after handling product. Eye wash fountains and drench showers should be located within 100 feet, or a 10-second walk, from the work area per ANSI Z358.1-1990.
Comments:	Nuisance dust TLV (units): 15mg/m ³

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	White free-flowing granule	Upper Flammability Limits:	Upper Explosive Limit: Not measured
Odor:	Slight chemical	Lower Flammability Limits:	Lower Explosive Limit: Not measured
Odor Threshold:	Not measured	Vapor Pressure (Pa):	Not measured
pH:	Not determined	Vapor Density:	Heavier than air
Melting/Freezing Points (°C):	Not measured	Solubility in Water:	Soluble
Initial Boiling Point/Range (°C):	No Established Limit (C) / No Established Limit (F)	Partition Co-efficient n-octanol/water (Log Kow):	Not measured
Flash Point and Method:	Difficult to burn or continue burning	Auto-Ignition Temperature (°C):	Not measured
Evaporation Rate (Ether=1):	Not measured	Decomposition Temperature:	Not measured
Flammability (Solid, Gas):	Not applicable	Viscosity (cSt):	Not measured
Specific Gravity @ 20°C	Not applicable	VOC %:	Not measured
Other Information:	No other relevant information.	Density:	52-57 lbs/ft ³

SECTION 10**STABILITY AND REACTIVITY**

Stable:	Yes
Hazardous Polymerization:	No
Polymerization:	Will not occur
Conditions To Avoid:	Heat, open flame, sparks and static electricity.
Hazardous Decomposition Prod:	Temperatures above 282°C causes a release of ammonia and sulfur trioxide.
Incompatible Materials:	Strong oxidizers, bases, chlorates, and nitrates.

SECTION 11**TOXICOLOGICAL INFORMATION**

Acute Dermal LD₅₀:	Not determined.
Acute Oral LD₅₀:	Not determined.
Acute Inhalation LC₅₀:	Not determined.
Eye Effects:	Causes moderate eye irritation.
Skin Effects:	May cause mild skin irritation.
Carcinogenicity:	Not listed in OSHA, NTP, IARC or ACGIH.
Sensitization:	Not a contact sensitizer.

SECTION 12**ECOLOGICAL INFORMATION**

Environmental Data:	Ecotoxicity information is not available. This product is not for use in aquatic settings.
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SECTION 13**DISPOSAL CONSIDERATIONS**

Disposal Method:	Completely empty contents of bag into spray application equipment. Do not reuse bag. Offer empty bag for recycling, or dispose of according to local, state, and federal regulations.
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SECTION 14**TRANSPORT INFORMATION**

UN Number:	Not applicable	
UN Proper Shipping Name:	Not regulated	
Transport Hazard Class(es):	DOT (Domestic Surface Transportation):	IMO/IMDG (Ocean Transportation):
	DOT Proper Shipping: Not regulated	IMDG Proper Shipping Name: Not regulated
	DOT Hazard Class: Not applicable	IMDG Hazard Class: Not applicable
	DOT Label: None	Sub Class: Not applicable
	UN/NA Number: Not applicable	IMDG Packing Group: Not applicable
	DOT Packing Group CERCLA/DOT RQ: NA gal. / NA lbs.	
Special Precautions For User:	Not applicable	
Transport:	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable	
Environmental Hazards IMDG:	Marine Pollutant: No	
Packing Group:	Not applicable	

SECTION 15**REGULATORY INFORMATION UNITED STATES**

311/312 Hazard Categories:	302: Acrylamide (impurity) <0.1% Fire: <u>No</u> / Sudden Release of Pressure: <u>No</u> / Reactive: <u>No</u> / Immediate (acute): <u>Yes</u> / Delayed (chronic): <u>No</u>
313 Reportable Ingredients:	313: Sulfuric acid diammonium <100 / 304: Acrylamide (impurity) <0.1%
TSCA Status:	Toxic Substance Control Act: All chemical substances in this product are listed in the TSCA inventory.
California Proposition 65:	Not listed.

SECTION 16**OTHER INFORMATION**

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.