KALO

SDS Revision Date: 04/08/2015

SAFETY DATA SHEET

SECTION 1 IDENTIFICATION

Company Name	KALO, Inc.
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

24 HOUR EMERGENCY NUMBER/CHEMTREC (USA)
1-800-424-9300

Poison Control Center (USA)
1-800-222-1212

Product Identity	**Cadence**
Reference/Item Number	CADEN1Q, CADEN01, CADEN02, CADEN30, CADEN265
Intended Use	Agricultural Adjuvant
Application Method	See technical data sheet.

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 TOX. 4]:

H302: Harmful if swallowed.

[SKIN IRRIT. 2]:

H315: Causes skin irritation.

[EYE IRRIT. 2]

H319: Causes serious eye irritation.

[PREVENTION]:

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/eye/face protection.

[RESPONSE]:

P301+312: If swallowed: Call a poison center or doctor/physician if you feel unwell.

P302+352: If on skin: Wash with plenty of soap and water.

P305+351+338: If in eyes: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing.

P330: Rinse mouth.

P337+313: If eye irritation persists: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

[STORAGE]:

P403+P233: Store in a well-ventilated space. Keep container tightly closed.

P402+P235: Store in a dry place. Keep cool.

[DISPOSAL]:

P501: Dispose of contents/container in accordance with local/national regulations.

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.

Ingredient/Chemical Designations	Weight %	CAS Number	GHS Classifications	Notes
Proprietary surfactant blend	100	Proprietary (contains diethylene glycol CAS: 111-46-6)	Acute Tox. 4; H302 / Skin Irrit. 2; H315: / Eye Irrit. 2; H319	[1]

Contains: diethylene glycol / CAS: 111-46-6

[1] *Substance classified with a health or environmental hazard.*

[2] *Substance with a workplace exposure limit.*

[3] *PBT-substance or vPvB-substance.*

H302: *Harmful if swallowed.*

H315: *Causes skin irritation.*

H319: *Causes serious eye irritation.*

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:	Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes:	Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention.
Skin:	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion:	If accidentally swallowed, obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

Ingestion:	Harmful if swallowed.
Eyes:	Causes serious eye irritation.
Skin:	Causes skin irritation.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media:	Recommended extinguishing media: alcohol resistant foam, CO^2, powder, water spray. Do not use water jet.
Special Hazards:	Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed.
Advice For Firefighters:	Evacuate area. Prevent contamination from run-off of adjacent areas, streams, drinking water and sewers. Do not flush down sewers or other drainage systems. Exposed firefighters must wear standard protective equipment and in enclosed areas self-contained breathing apparatus. Use water-spray to cool fire exposed surfaces and personnel.
ERG Guide No.	-----

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and EmergencyProcedures:	Keep all sources of ignition away from spill/release. In case of a major spill or spillage in a confined space, evacuate the area and check vapor levels.
Environmental Precautions:	Do not allow spills to enter drains or water courses.
Methods and Material For Containment and Cleaning Up:	Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in Section 8. Contain and absorb spillage with non-combustible materials (e.g. sand/earth/vermiculite). Place in closed containers outside buildings and dispose of according to the Waste Regulations (see Section 13.) Clean, preferably with a detergent. Do not use solvents. Do not allow spills to enter drains or water courses. If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams, or lakes, the Environmental Protection Agency should also be informed.

SECTION 7 HANDLING AND STORAGE

Precautions For Safe Handling:	Handle containers carefully to prevent damage and spillage. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Keep container closed. Use only with adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before reuse. Destroy contaminated belts and shoes and other items that cannot be decontaminated. Keep away form excessive heat and flame. See Section 2 for further details [PREVENTION].
Conditions For Safe Storage:	Store in tightly closed container in a cool, dry, well-ventilated area away from heat, sources of ignition and incompatibles. Keep containers tightly closed and upright when not in use. Protect against physical damage. Empty containers may contain residue or vapors. Do not cut, grind, drill, or weld on or near containers unless precautions are taken against these hazards. See Section 2 for further details [STORAGE].
Incompatible Materials:	Strong acids, strong bases, strong oxidizers.
Specific End Use(s):	Agricultural adjuvant.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Data:	This product contains no ingredients with established limits for exposure under OSHA, ACGIH or NIOSH.
Carcinogen Data:	This product contains no ingredients that are suspected of being or known to be a carcinogen under OSHA, NTP, or IARC.

[EXPOSURE CONTROLS]:

Respiratory:	If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
Eyes:	Wear safety eyewear (e.g. safety spectacles/goggles/visors) to protect against the splash of liquids.
Skin:	Overalls, which cover the body, arms, and legs, should be worn. Skin should not be exposed. All parts of the body should be washed after contact.
Engineering Controls:	Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates, and any vapor below occupational exposure limits, suitable respiratory protection must be worn.
Other Work Practices:	No data available. See Section 2 for further details [PREVENTION].

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear colorless liquid	***Upper Flammability Limits:***	Upper Explosive Limit: Not measured
Odor:	Mild	***Lower Flammability Limits:***	Lower Explosive Limit: Not measured
Odor Threshold:	Not measured	***Vapor Pressure (Pa):***	Not measured
pH:	5-7	***Vapor Density:***	Heavier than air
Melting/Freezing Points (ºC):	Not measured	***Solubility in Water:***	Soluble
Initial Boiling Point/Range (ºC):	No Established Limit (C) / No Established Limit (F)	***Partition Co-efficient n-octanol/water (Log Kow):***	Not measured
Flash Point:	>149ºC / >300ºF Pensky Martin Closed Cup (PMCC)	***Auto-Ignition Temperature (ºC):***	Not measured
Evaporation Rate (Ether=1):	Not measured	***Decomposition Temperature:***	Not measured
Flammability (Solid, Gas):	Not applicable	***Viscosity (cSt):***	Not measured
Specific Gravity @ 20ºC	1.07	***VOC%:***	Not measured
Other Information:	No other relevant information.		

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	Not chemically reactive.
Chemical Stability:	Stable under normal storage and handling conditions.
Hazardous Reactions:	Hazardous reactions not anticipated.
Conditions To Avoid:	Extreme heat, open flame and incompatibles.
Incompatible Materials:	Strong acids, strong bases, strong oxidizers.
Hazardous Decomposition Prod.:	Not anticipated under normal conditions of use.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	**Ingredients**	**Oral LD50 mg/kg**	**Skin LD50mg/kg**	**Inhalation Vapor/Dust/Mist LD50mg/L/4hr**
	Proprietary Blend	1,500 (Rat)/Category:4	>5,000 (Rabbit)/Category NA	ND

Category 4:	Item: Acute Toxicity (mouth) / Hazard: Harmful if swallowed.
Category --:	Item: Acute Toxicity (skin) / Hazard: Not applicable.
Category --:	Item: Acute Toxicity (inhalation) / Hazard: Not applicable.
Category 2:	Item: Skin Corrosion/Irritation / Hazard: Causes skin irritation.
Category 2:	Item: Eye Damage/Irritation / Hazard: Causes serious eye irritation.
Category --:	Item: Sensitization (skin) / Hazard: Not applicable.
Category --:	Item: Germ Toxicity / Hazard: Not applicable.
Category --:	Item: Carcinogenicity / Hazard: Not applicable.
Category --:	Item: Reproductive Toxicity / Hazard: Not applicable.
Category --:	Item: Specific Target Organ Systemic Toxicity (single exposure) / Hazard: Not applicable.
Category --:	Item: Specific Target Organ Systemic Toxicity (repeated exposure / Hazard: Not applicable.
Category --:	Item: Aspiration Hazard / Hazard: Not applicable.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity:	No additional information provided for this product. See Section 3 for chemical specific data.
Aquatic Ecotoxicity:	This product is not expected to be toxic to the aquatic environment. However, ecotoxicity studies have not been conducted on this preparation.
Persistence and Degradability:	There is no data available on the preparation itself.
Bioaccumulative Potential:	Not measured.
Mobility in Soil:	No data available.
Results of PBT and vPvB Assess:	This product contains no PBT/vPvB chemicals.
Other Adverse Effects:	No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Treatment Methods:	Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.

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

Regulatory Overview:	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) inventory or are not required to be listed on the TSCA inventory.
WHMIS Classification:	D2B
US EPA Tier II Hazards:	Fire: No / Sudden Release of Pressure: No / Reactive: No / Immediate (acute): Yes / Delayed (chronic): No
EPCRA 311/312:	Chemicals and RQs (>0.1%): ethylene glycol (5,000.00)
EPCRA 302:	Extremely Hazardous (>0.1%): No product ingredients listed
EPCRA 313	Toxic Chemicals (>0.1%): ethylene glycol
Proposition 65	Carcinogens (>0.0%): No product ingredients listed
Proposition 65:	Developmental Toxins (>0.0%): No product ingredients listed
Proposition 65:	Female Repro Toxins (>0.0%): No product ingredients listed
Proposition 65:	Male Repro Toxins (>0.0%): No product ingredients listed
N.J. RTK Substance (>1%):	Diethylene glycol
Penn RTK Substances (>1%):	Diethylene glycol

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.