

SECTION 1

IDENTIFICATION

Company Name KALO, Inc.
Address 13200 Metcalf Ave., Suite 250
City, State, Zipcode Overland Park, KS 66213
Phone Numbers 800-255-5196 / 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 Leeway
Reference/Item Number LWY02
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:

[ACUTE TOX. 4]:

H302: Harmful if swallowed.
H332: Harmful if inhaled.

[STOT SE 3]:

H335: May cause respiratory irritation.

[SKIN IRRIT. 2]:

H315: Causes skin irritation.

[EYE IRRIT. 2]:

H319: Causes serious eye irritation.

[PREVENTION]:

P261: Avoid breathing fumes/mist/vapors/spray.
P264: Wash thoroughly after handling.
P280: In case of inadequate ventilation, wear respiratory protection.
P285: Wear protective gloves/eye/face protection.

[RESPONSE]:

P301+312: If swallowed: Call a poison center or doctor/physician if you feel unwell.
P304+340+312: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 continuously 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.
P363: Wash contaminated clothing before reuse.

[STORAGE]:

P402+233: Store in a well-ventilated space. Keep container tightly closed.
P235: Keep cool.

[DISPOSAL]:

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

HAZARD COMMUNICATION STANDARD (HCS) PICTOGRAM(S)



WARNING

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 Classification	Notes
Proprietary blend of water conditioning agents	100	Proprietary	Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Acute Tox. 4; H302, H332 / STOT SE 3; H335	[1] [2]

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

[2] Substance with a workplace exposure limit.

H302: Harmful if swallowed.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

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.

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

Eyes:	Causes serious eye damage.
Skin:	Causes skin irritation.
Mouth:	Harmful if swallowed.
Inhalation:	May cause respiratory irritation. Harmful if inhaled.

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:	Avoid breathing dust/fume/mist/vapors spray. Irritating or toxic substances may be emitted upon thermal decomposition. Thermal decomposition products may include oxides of carbon, nitrogen and sulfur as well as smoke and fume.
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 Emergency Procedures:	Isolate area. Keep unnecessary and unprotected personnel from entering the area. Keep upwind of spill. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to Section 8 [EXPOSURE CONTROLS AND PERSONAL PROTECTION]. Refer to Section 7 [HANDLING], for additional precautionary measures.
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. Avoid contact with eyes, skin and clothing. Avoid breathing vapor. Do not swallow. Wash thoroughly after handling. Keep container tightly closed. Use with adequate ventilation. See Section 2 for further details [PREVENTION].
Conditions For Safe Storage:	Store in a tightly closed container. Store away from incompatible materials. Store at ambient temperature.
Incompatible Materials:	Strong acids, strong bases, strong oxidizers. See section 2 for further details [STORAGE].
Specific End Use(s):	See technical data sheet.

SECTION 8**EXPOSURE CONTROLS/PERSONAL PROTECTION**

Ingredients with established limits for exposure are listed below:

Exposure Data:	CAS No.	Ingestion	Source	Value
	0000056-81-5	Glycerol	OSHA	TWA: 5mg/m3 (total), TWA 5mg/m3 (respirable)
			ACGIH	TWA: 3mg/m3 (respirable), TWA 10mg/m3 (mist)
			NIOSH	No established RELs

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:	Pale yellow liquid	Upper Flammability Limits:	Upper Explosive Limit: Not measured
Odor:	Not determined	Lower Flammability Limits:	Lower Explosive Limit: Not measured
Odor Threshold:	Not measured	Vapor Pressure (Pa):	Not measured
pH:	6.5-7.2 (neat)	Vapor Density:	Heavier than air
Melting/Freezing Points (°C):	Not measured	Solubility in Water:	Not measured
Initial Boiling Point/Range (°C):	Not measured	Partition Co-efficient n-octanol/water (Log Kow):	Not measured
Flash Point:	>93°C / >200°F Tag Closed Cup (TCC)	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	1.16-1.18	Volatiles %:	Not measured
Other Information:	No other relevant information	VOC%:	Not measured

SECTION 10**STABILITY AND REACTIVITY**

Reactivity:	No dangerous reactions under normal handling conditions.
Chemical Stability:	Stable.
Hazardous Reactions:	No hazardous reactions under normal storage and handling conditions.
Conditions To Avoid:	Extreme heat/open flame/sparks and other sources of ignition.
Incompatible Materials:	Strong acids. Strong bases. Strong oxidizers.
Hazardous Decomposition Prod.:	No hazardous decomposition products under normal storage and handling conditions.

SECTION 11**TOXICOLOGICAL INFORMATION**

Acute Toxicity (estimate):	Ingredients	Oral LD50 mg/kg	Skin LD50mg/kg	Inhalation Vapor/Dust/Mist LD50mg/L/4hr
	Proprietary blend	>5,000 (Rat)/Category: 4	<5,000 (Rabbit)/Category: NA	Vapor: 11.0/Category:4 Dust/Mist: ND
Category 4:	Item: Acute Toxicity (mouth) / Hazard: Harmful if swallowed.			
Category --:	Item: Acute Toxicity (skin) / Hazard: Not applicable.			
Category 4:	Item: Acute Toxicity (inhalation) / Hazard: Harmful if inhaled.			
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 3:	Item: Specific Target Organ Systemic Toxicity (single exposure) / Hazard: May cause respiratory irritation.			
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. See Section 3 for chemical specific data.
Aquatic Ecotoxicity:	This product is not expected to be toxic to the aquatic environment.
Persistence and Degradability:	There is no data available on the preparation itself.
Results of PBT and vPvB Assess:	This product contains no PBT/vPvB chemicals.
Bioaccumulative Potential:	Not measured.
Mobility in Soil:	No data available.
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.
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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

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: <u>No</u> / Sudden Release of Pressure: <u>No</u> / Reactive: <u>No</u> / Immediate (acute): <u>Yes</u> / Delayed (chronic): <u>No</u>	
EPCRA 311/312:	Chemicals and RQs (>0.1%): No product ingredients listed	
EPCRA 302:	Extremely Hazardous (>0.1%): No product ingredients listed	
EPCRA 313	Toxic Chemicals (>0.1%): No product ingredients listed	
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%):	Glycerol	
Penn RTK Substances (>1%):	Glycerol	

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.