



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	Anti-Foam	
Reference/Item Number	AF1Q	
Intended Use	Defoamer	
Application Method	See technical data sheet.	

SECTION 2 HAZARD(S) IDENTIFICATION

<i>Using the toxicity data listed in Sections 11 and 12, the product is labeled as follows:</i>		HAZARD COMMUNICATION STANDARD (HCS) PICTOGRAM(S)  WARNING
[SKIN IRRIT. 3]:		
H316:	Causes mild skin irritation.	
[EYE IRRIT. 2B.]:		
H320:	Causes eye irritation.	
[PREVENTION]:		
P264:	Wash hands, face and other affected areas thoroughly after handling.	
[RESPONSE]:		
P101:	If medical advice is needed, have product container or label at hand.	
P102:	Keep out of reach of children.	
P103:	Read label before use.	
P332+313:	If skin irritation occurs: Get medical advice/attention.	
P337+P313:	If eye irritation persists: 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.	
[STORAGE]:		
P402+404:	Store in a cool, dry place. Store in a closed container.	
P233:	Keep container tightly closed.	
P234:	Store in original container.	
[DISPOSAL]:		
P501:	Dispose of contents/container in accordance with local/national regulations.	
[ACUTE EFFECTS]:		
Eyes:	May cause mild eye irritation.	
Skin:	May cause mild skin irritation.	
Inhalation:	Not established.	
Ingestion:	Not established.	

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient/Chemical Designations</u>	<u>Weight %</u>	<u>CAS Number</u>	<u>GHS Classification</u>
Silicone antifoam compound, food-grade	10	Mixture	Skin Irrit. 3; H316 / Eye Irrit. 2B; H320
<i>H316: Causes mild skin irritation.</i>			
<i>H320: Causes eye irritation.</i>			

SECTION 4**FIRST AID MEASURES**

Eyes:	Hold eyes open and rinse slowly and gently with water for 15-20 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 15-20 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. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
Inhalation:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
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.
Antidotes:	Treat symptomatically; no specific antidote available.
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.

SECTION 5**FIRE FIGHTING MEASURES**

General Hazard:	Toxic fumes may be emitted in a fire situation.
Extinguishing Media:	Foam, dry chemical, carbon dioxide, water spray or fog.
Hazardous Combustion Products:	N/A
Explosion/Fire Hazards:	No specific explosion hazards are identified or expected. Always fight fire with the implication that other volatile substances may be present.
Fire Fighting 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. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.
Fire Fighting 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:	Pick up spilled liquid with absorbent material and sweep up for disposal. Place it and damaged unusable containers in a landfill appropriate for non hazardous chemical waste. Check local, state, and federal regulations for proper disposal.
Large Spill:	Dike around the spill area to prevent spreading. Pick up spilled material with suitable absorbent material and place in appropriate container for disposal. Place it and unusable containers in a landfill appropriate for non hazardous chemical waste. Check local, state, and federal regulations for proper disposal.
Environmental Precautions:	Water Spill: Do not contaminate any body of water. Land Spill: Avoid runoff onto any adjacent land.
Special Protective Equipment:	Always wear proper protective equipment when handling this product.

SECTION 7**HANDLING AND STORAGE**

Handling:	Wash hands after handling, before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid contact with eyes and prolonged contact with skin. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
Storage:	Store in a cool, dry place. Keep containers tightly closed. Store in original container. Do not allow water or other chemicals to be introduced into contents of container. Do not contaminate water sources with equipment wash water, spray disposal wastes or by the cleaning of equipment. Do not store near feed or food products. Do not use or store near open flame or with oxidizing agents. Store between 32°F (minimum) and 120°F (maximum).

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.
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

[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.
Skin:	Wear chemical-resistant gloves such as rubber or neoprene, coveralls over long-sleeved shirt, long pants and chemical resistant footwear plus socks. Chemical resistant headgear for overhead exposure. When exposed to product concentrate, wear a chemical resistant apron.
Respiratory:	Work in a well ventilated area; exposure to airborne contaminants is not expected to cause concern.
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.

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	White liquid	Upper Flammability Limits:	Upper Explosive Limit: Not measured
Odor:	Bland	Lower Flammability Limits:	Lower Explosive Limit: Not measured
Odor Threshold:	Not measured	Vapor Pressure (Pa):	Not measured
pH:	3.5-4.5	Vapor Density:	Not measured
Melting/Freezing Points (°C):	-0°C / -32°F	Solubility in Water:	Dispersible
Initial Boiling Point/Range (°C):	~100°C / ~212°F	Partition Co-efficient n-octanol/water (Log Kow):	Not measured
Flash Point:	>100°C / >212°F	Auto-Ignition Temperature (°C):	Not measured
Evaporation Rate (Ether=1):	Not measured	Decomposition Temperature:	Not measured
Flammability (Solid, Gas):	Not measured	Viscosity (cSt):	Not measured
Specific Gravity @ 20°C	Not measured	VOC %:	Not measured
Other Information:	No other relevant information.	Density:	8.35 lb/gal

SECTION 10**STABILITY AND REACTIVITY**

Stable:	Yes
Hazardous Polymerization:	No
Stability:	Stable under normal handling conditions.
Polymerization:	Will not occur
Conditions To Avoid:	Freezing temperatures.
Hazardous Decomposition Prod.	
Incompatible Materials:	

SECTION 11**TOXICOLOGICAL INFORMATION**

There is no toxicological data for this product as a whole. Based on relevant ingredients with known acute toxicity, the acute toxicity estimate using the additive formula (ATE) has been determined.

Acute Toxicity:	Oral	Dermal	Inhalation
	LD50: Not established	LD50: Not established	LD50: Not established
Category --:	Item: Acute Toxicity (mouth) / Hazard: Not applicable.		Routes of Entry:
Category --:	Item: Acute Toxicity (skin) / Hazard: Not applicable.		Symptoms:
Category --:	Item: Acute Toxicity (inhalation) / Hazard: Not applicable.		Skin Irritant: May cause mild skin irritation.
Category 3:	Item: Skin Corrosion/Irritation / Hazard: May cause mild skin irritation.		Eye Irritant: May cause mild eye irritation.
Category 2B:	Item: Eye Damage/Irritation / Hazard: May cause mild eye irritation.		Sensitization: Not a contact sensitizer.
Category --:	Item: Sensitization (respiratory) / Hazard: Not applicable.		Mutagenicity:
Category --:	Item: Sensitization (skin) / Hazard: Not applicable.		Carcinogenicity: Not listed in OSHA, NTP, IARC or ACGIH
Category --:	Item: Germ Toxicity / Hazard: Not applicable.		Reproductive Toxicity:
Category --:	Item: Carcinogenicity / Hazard: Not applicable.		Target Organs:
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**

Environmental Data:	No data available.
Aquatic Ecotoxicity:	This product is not labeled for use in aquatic settings.
Aquatic Toxicity Acute:	96-HOUR LC50: 6,240 mg/L (minnow) / 48-HOUR EC50: 3,350 mg/L (water flea)
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
Results of PBT and vPvB Assess:	No data available.
Other Adverse Effects:	No data available.

SECTION 13**DISPOSAL CONSIDERATIONS**

Waste Treatment Methods: Do not reuse product containers. Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to <http://www.acrcycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state, and federal regulations.

SECTION 14**TRANSPORT INFORMATION**

UN Number:	Not applicable.	
UN Proper Shipping Name:	Not regulated by DOT.	
	NOTE: DOT Classification applies to most packaging sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.	
Transport Hazard Class(es):	DOT (Domestic Surface Transportation):	IMO/IMDG (Ocean Transportation) and IATA (Air Transportation):
	DOT Proper Shipping: Not regulated by DOT.	IMDG/IATA Proper Shipping Name: Not regulated by DOT.
	DOT Hazard Class: Not applicable.	IMDG/IATA Hazard Class: Not applicable.
	DOT Label: Not applicable.	Sub Class: Not applicable
	UN/NA Number: Not applicable.	IMDG/IATA Packing Group: Not applicable.
	DOT Packing Group: Not applicable.	
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:	Not applicable.	
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: --

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%): No product ingredients listed

EPCRA 302: Extremely Hazardous (>0.1%): No product ingredients listed

EPCRA 313: Toxic Chemicals (>0.1%): No product ingredients listed

CERCLA RQ: Not 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%): No product ingredients listed

Penn RTK Substances (>1%): No product ingredients 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.