



## SECTION 1

## IDENTIFICATION

|                              |   |  |
|------------------------------|---|--|
| <i>Company Name</i>          | KALO, Inc.  | <b>24 HOUR EMERGENCY NUMBER/CHEMTREC (USA)</b><br><b>1-800-424-9300</b><br><br><b>Poison Control Center (USA)</b><br><b>1-800-222-1212</b> |
| <i>Address</i>               | 13200 Metcalf Ave, Suite 250  |  |
| <i>City, State, Zipcode</i>  | Overland Park, KS 66213   |  |
| <i>Phone Numbers</i>         | 1-800-255-5196 / 1-913-491-9146 (fax)   |  |
| <i>Website</i>               | www.kalo.com  |  |
| <i>Product Identity</i>      | <b>Anti-Foam</b>  |  |
| <i>Reference/Item Number</i> | AF1Q  |  |
| <i>Other Identification</i>  | 10% Silicone Antifoam Emulsion. Water-Based. Food-Grade. Kosher.                                  |  |
| <i>Intended Use</i>          | Antifoaming agent. Defoamer   |  |
| <i>Restrictions</i>          | For industrial use only. See product technical bulletin for maximum use levels when used in food. |  |
| <i>Application Method</i>    | 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> |  | <b>HAZARD COMMUNICATION STANDARD (HCS)</b><br><b>PICTOGRAM(S) and SIGNAL WORD</b><br><br>N/A |
| <b>[HAZARD STATEMENTS]:</b>   | N/A  |  |
| <b>[PRECAUTIONARY STATEMENTS]:</b>  | N/A  |  |
| <b>[STORAGE]:</b>   |  |  |
| <b>P402+404:</b>  | Store in a cool, dry place. Store in a closed container.                     |  |
| <b>P233:</b>  | Keep container tightly closed.   |  |
| <b>P234:</b>  | Store in original container.   |  |
| <b>[DISPOSAL]:</b>  |  |  |
| <b>P501:</b>  | Dispose of contents/container in accordance with local/national regulations. |  |

## SECTION 3

## COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Ingredient/Chemical Designations</u> | <u>Weight %</u> | <u>CAS Number</u> | <u>GHS Classification</u> |
|---|-----------------|-------------------|---------------------------|
| Polydimethylsiloxane compound           | 10              | Mixture           | Non-hazardous             |

*This product contains no components at levels reportable as hazardous per OSHA Hazard Communication Standard 29 CFR 1910.1200, or in physical form reportable as hazardous per OSHA Hazard Communication Standard 29 CFR 1910.1200.*

## SECTION 4

## FIRST AID MEASURES

|                                |   |
|--------------------------------|---|
| <b>Eyes:</b>                   | Immediately flush eyes with a direct stream of water for at least 15 minutes while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Get prompt medical attention if irritation develops.                 |
| <b>Skin:</b>                   | Flush skin with water and wash with mild soap and water. Seek medical attention if irritation develops or rash occurs. Remove contaminated clothing and wash before reuse.  |
| <b>Ingestion:</b>              | No first aid should be needed. Seek medical attention if large quantities are consumed. Do not induce vomiting except by physician's order. If spontaneous vomiting is inevitable, prevent aspiration by keeping victim's head below the knees. |
| <b>Inhalation:</b>             | No first aid should be needed.  |
| <b>Notes to Physician:</b>     | Treat according to person's condition and specifics of exposure.  |
| <b>Symptoms/Effects:</b>       | May cause minor irritation.   |
| <b>Additional Information:</b> | 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

|   |   |
|---|---|
| <b>Extinguishing Media:</b>                                   | Dry chemical, carbon dioxide, foam.   |
| <b>Firefighting Measures:</b>                                 | Use water spray to cool containers exposed to flames. If leak or spill has not ignited, use water spray to disperse the vapors.   |
| <b>Firefighting Hazards:</b>                                  | None known.   |
| <b>Protective Equipment and Precautions for Firefighters:</b> | Do not enter enclosed or confined workspaces without proper protective equipment. Firefighting personnel should wear respiratory protection (positive pressure if available). |

## SECTION 6

## ACCIDENTAL RELEASE MEASURES

|   |   |
|---|---|
| <b>Methods and Materials for Containment and Cleaning Up:</b>               | Build dike to contain flow. Remove free liquid. Contain spill and keep from entering waterways or sewers. Absorb on inert material. Shovel, sweep, or vacuum spill and place in closed container for disposal according to local, state, and federal regulations. |
| <b>Personal Precautions, Protective Equipment and Emergency Procedures:</b> | Use personal protective equipment as described in Section 8. No special protective equipment should be needed. Use caution; spilled material may present a slipping hazard.   |

**SECTION 7****HANDLING AND STORAGE**

|                  |   |
|------------------|---|
| <b>Handling:</b> | Keep container tightly closed when moving or storing. Do not dilute product with water and store in diluted form. Exercise good personal and industrial hygiene when handling food-grade antifoams and defoamers. Avoid unsanitary conditions, usage, and storage.  |
| <b>Storage:</b>  | Store this product below 110 °F (43 °C) in a cool, dry, well-ventilated area away from direct sources of heat, moisture, or sunlight. Do not store near strong oxidizing materials. Preferentially store below 77 °F (25 °C). To prolong shelf life, this product may be refrigerated. For best quality, protect product from freezing. |

**SECTION 8****EXPOSURE CONTROLS/PERSONAL PROTECTION**

|                                   |   |
|-----------------------------------|---|
| <b>Component Exposure Limits:</b> | There are no components at reportable levels with workspace exposure limits.                |
| <b>Engineering Controls:</b>      | <b>Local Ventilation:</b> None should be needed. / <b>General Ventilation:</b> Recommended. |

**[PERSONAL PROTECTIVE EQUIPMENT]**

|                                |  |
|--------------------------------|--|
| <b>Eyes and Face:</b>          | Always wear eye protection. Goggles or safety glasses with side shields are recommended. |
| <b>Skin:</b>                   | Wash hands at mealtime and end of shift.   |
| <b>Respiratory:</b>            | No respiratory protection should be needed.  |
| <b>Protective Clothing:</b>    | Chemical resistant gloves and goggles/safety glasses with side shields.                  |
| <b>Precautionary Measures:</b> | Avoid eye contact at all times. Use reasonable care. Exercise good industrial hygiene.   |

**SECTION 9****PHYSICAL AND CHEMICAL PROPERTIES**

|  |  |  |                |
|--|--|--|----------------|
| <b>Appearance:</b>                       | Milky white liquid   | <b>Upper Flammability Limits:</b>                        | Not determined |
| <b>Odor:</b>                             | Undetectable to mild   | <b>Lower Flammability Limits:</b>                        | Not determined |
| <b>Odor Threshold:</b>                   | Not determined   | <b>Vapor Pressure (Pa):</b>                              | Not determined |
| <b>pH:</b>                               | 3.5-4.5  | <b>Vapor Density:</b>                                    | Not determined |
| <b>Melting/Freezing Points (°C):</b>     | ~0°C / ~32°F   | <b>Solubility in Water:</b>                              | Dispersible    |
| <b>Initial Boiling Point/Range (°C):</b> | ~100°C / ~212°F  | <b>Partition Co-efficient n-octanol/water (Log Kow):</b> | Not determined |
| <b>Flash Point:</b>                      | >100°C / >212°F  | <b>Auto-Ignition Temperature (°C):</b>                   | Not determined |
| <b>Evaporation Rate (Ether=1):</b>       | Not determined   | <b>Decomposition Temperature:</b>                        | Not determined |
| <b>Flammability (Solid, Gas):</b>        | Not flammable  | <b>Relative Density @25°C:</b>                           | 1.01           |
| <b>Specific Gravity @ 20°C</b>           | Not determined   | <b>Bulk Density @25°C:</b>                               | 8.35 lb/gal    |
| <b>Volatile Organic %:</b>               | Negligible   | <b>Viscosity @25°C:</b>                                  | Pseudoplastic* |
| <b>Other:</b>                            | The physical data presented above are representative values, as the actual product's values may vary slightly. |  |                |

\* Non-Newtonian viscosity.  
Viscosity will vary depending upon the shear force applied.  
Increased shear results in a lower viscosity.

**SECTION 10****STABILITY AND REACTIVITY**

|                                 |   |
|---------------------------------|---|
| <b>Reactivity:</b>              | No known hazardous reactions under normal use conditions.   |
| <b>Chemical Stability:</b>      | Stable under normal handling and storage conditions.  |
| <b>Hazardous Reactions:</b>     | Hazardous polymerization will not occur.  |
| <b>Conditions to Avoid:</b>     | Extreme temperatures.   |
| <b>Incompatible Materials:</b>  | Oxidizing material can cause a reaction.  |
| <b>Hazardous Decomposition:</b> | Under high heat or fire conditions, the following compounds may be formed: carbon oxides including carbon monoxide, silicon oxides, and formaldehyde. |

**SECTION 11****TOXICOLOGICAL INFORMATION**

|                                       |                               |                      |                          |
|---------------------------------------|-------------------------------|----------------------|--------------------------|
| <b>Acute Toxicity Estimate (ATE):</b> | <b>LD50 (Oral)</b>            | <b>LD50 (Dermal)</b> | <b>LD50 (Inhalation)</b> |
|                                       | >5,000 mg/kg ATE (calculated) | Not determined       | Not determined           |

|                     |  |
|---------------------|--|
| <b>Category --:</b> | Item: Acute Toxicity (oral) / Hazard: <b>Effects of ingesting small quantities are expected to be minimal. Never taste or swallow product.</b>                                   |
| <b>Category --:</b> | Item: Acute Toxicity (skin) / Hazard: <b>Some individuals may experience minor irritation and discomfort to skin. Repeated or prolonged exposure may cause minor irritation.</b> |
| <b>Category --:</b> | Item: Acute Toxicity (inhalation) / Hazard: <b>Not expected to be an inhalation hazard.</b>  |
| <b>Category --:</b> | Item: Acute Toxicity (eye) / Hazard: <b>Direct contact may cause temporary irritation.</b>   |
| <b>Category --:</b> | Item: Skin Corrosion/Irritation / Hazard: <b>Based on available data, the classification criteria are not met.</b>   |
| <b>Category --:</b> | Item: Eye Damage/Irritation / Hazard: <b>Based on available data, the classification criteria are not met.</b>   |
| <b>Category --:</b> | Item: Sensitization (respiratory) / Hazard: <b>Based on available data, the classification criteria are not met.</b>   |
| <b>Category --:</b> | Item: Sensitization (skin) / Hazard: <b>Based on available data, the classification criteria are not met.</b>  |
| <b>Category --:</b> | Item: Germ Cell Mutagenicity / Hazard: <b>Based on available data, the classification criteria are not met.</b>  |
| <b>Category --:</b> | Item: Carcinogenicity / Hazard: <b>No components present at 0.1% or greater are classified as carcinogens by the NTP, IACR or OSHA.</b>  |
| <b>Category --:</b> | Item: Reproductive Toxicity / Hazard: <b>Based on available data, the classification criteria are not met.</b>   |
| <b>Category --:</b> | Item: Specific Target Organ Systemic Toxicity (single exposure) / Hazard: <b>Based on available data, the classification criteria are not met.</b>                               |
| <b>Category --:</b> | Item: Specific Target Organ Systemic Toxicity (repeated exposure) / Hazard: <b>Based on available data, the classification criteria are not met.</b>                             |
| <b>Category --:</b> | Item: Aspiration Hazard / Hazard: <b>Based on available data, the classification criteria are not met.</b>   |

## SECTION 12 ECOLOGICAL INFORMATION

### Ecotoxicity:

#### LC50 (Fish)

Pimephales promelas, 48h / 6,420 mg/L

#### LC50 (Aquatic Invertebrate)

Ceriodaphnia dubia, 48h / 3,350 mg/L

**Persistence and Degradability:** Complete data is not yet available.

**Bioaccumulative Potential:** Complete data is not yet available.

**Mobility In Soil:** Complete data is not yet available.

**Other Adverse Effects:** Complete data is not yet available.

## SECTION 13 DISPOSAL CONSIDERATIONS

### Waste Treatment Methods:

Dispose of in accordance with all federal, state/provincial and local regulations. Empty containers may contain product residue. Follow SDS and label warnings even after they have been emptied.

## SECTION 14 TRANSPORT INFORMATION

[DOT Road Shipment Information (49 CFR 172.101)]

**UN Number:** N/A

**DOT Proper Shipping Name:** N/A

**DOT Technical Name:** N/A

**DOT Hazard Classes:** N/A

**DOT Packing Group:** N/A

**Marine Pollutant:** No

**Air Shipment (IATA):** Not subject to IATA regulations.

**Ocean Shipment (IMDG):** Not subject to IMDG code.

**Transport in Bulk:** N/A

**Special Precautions:** None known.

## SECTION 15 REGULATORY INFORMATION

[International Chemical Inventory Status]

**USA (TSCA):** All ingredients are listed or exempt.

**Canada (DSL):** All ingredients are listed or exempt.

[EPA SARA Title III Chemical Listings]

**Section 302  
Extremely Hazardous  
Substances:** None

**Section 304  
CERCLA Hazardous Substances:** None

**Section 312 Hazard Class:** Acute: No / Chronic: No / Fire: No / Pressure: No / Reactive: No

**Section 313 Toxic Chemicals:** None or none present in regulated quantities.

**CA Proposition 65:** This product contains one or more chemicals known to the state of California to cause cancer, birth defect and/or other reproductive harm.

## 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.