

# SAFETY DATA SHEET



## SECTION 1: IDENTIFICATION

Company Information	KALO, Inc., 13200 Metcalf Ave., Ste. 250, Overland Park, KS 66213
Phone Numbers	800-255-5196 / 913-491-9146 FAX
Website	www.kalo.com
Product Identity	<b>BIO-FILM ULTRA</b> (for international use)
Reference/Item Number	BFULT55
Intended Use	See technical data sheet.
Application Method	See technical data sheet.
24 HOUR EMERGENCY NUMBER/CHEMTREC (USA)	1-800-424-9300
POISON CONTROL CENTER (USA)	1-800-222-1212

## SECTION 2: HAZARDS IDENTIFICATION

### HAZARD COMMUNICATION STANDARD (HCS) PICTOGRAM(S) AND SIGNAL WORD(S)

### WARNING

[CLASSIFICATION OF THE SUBSTANCE OR MIXTURE ACCORDING TO REGULATION (EC) NO. 1272/2008]

Eye Irrit. 3:	H316: Causes mild skin irritation. (Not adopted by EU CLP.)
Prevention:	P264: Wash thoroughly after handling. P280: Wear protective gloves and eye/face protection.
Response:	P302+350: IF ON SKIN: Wash with plenty of soap and water. P332+313: If skin irritation occurs, get medical advice/attention.
Storage:	No CLP/GHS storage statements.
Disposal:	No CLP/GHS disposal statements.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

If the product contains substances that present a hazard according to Regulation (EC) No. 1272/2008 [CLP/GHS] (as amended by (EU) 2015/830), they are listed below.

Ingredient/Chemical Designations:	Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-
References:	CAS No. 0009005-65-6 / EC No. 500-019-9 / Index No.
Weight %:	25% - 50%
Notes:	Substance classified with a health or environmental hazard.
Ingredient/Chemical Designations:	Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-, polymer with 6,6-dimethyl-2-methylenebicyclo[3.1.1]heptane
References:	500-019-9
Weight %:	10% - 25%
Notes:	Substance classified with a health or environmental hazard.

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## SECTION 4: FIRST AID MEASURES

### [DESCRIPTIONS]

<b>General:</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation:</b>	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.
<b>Eyes:</b>	Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention.
<b>Skin:</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Do NOT use solvents or thinners.
<b>Ingestion:</b>	If accidentally swallowed, obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

<b>Overview:</b>	No adverse symptoms or effects anticipated under normal handling conditions. See Section 2 for further details.
<b>Eyes:</b>	Causes mild skin irritation. (Not adopted by EU CLP.)

## SECTION 5: FIREFIGHTING MEASURES

<b>Extinguishing Media:</b>	Recommended extinguishing media: alcohol resistant foam, CO <sub>2</sub> , powder, water spray. Do not use water jet.
<b>Special Hazards Arising From the Substance or Mixture:</b>	Hazardous decomposition: Not anticipated under normal conditions of use.
<b>Advice For Firefighters:</b>	Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed. 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.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Precautions/Procedures:</b>	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.
<b>Environmental Precautions:</b>	Do not allow spills to enter drains or water courses.
<b>Methods and Material For Containment and Cleaning Up:</b>	Ventilate the area and avoid breathing vapors or mists. Take the personal protective measures listed in section 8. Contain and absorb spillage with non-combustible materials e.g. sand, earth, and 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 watercourses. 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.
<b>Reference to Other Sections:</b>	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## SECTION 7: HANDLING AND STORAGE

<b>Precautions For Safe Handling:</b>	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 re-use. Destroy contaminated belts and shoes and other items that cannot be decontaminated. See Section 2 for further details.
<b>Conditions For Safe Storage:</b>	Store in tightly closed containers in dry, well-ventilated area away from excessive heat and incompatibles. See Section 2 for further details.
<b>Incompatible Materials:</b>	Oxidizing agents.
<b>Specific End Use(s):</b>	See technical data sheet.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Data:** This product contains the following ingredients (at greater than 0.1%) with established limits for exposure under OSHA, ACGIH and/or NIOSH.

CAS No.	Ingredient	Source	Value
0009005-65-6	Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
CAS No.	Ingredient	Source	Value
0031393-98-3	Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-, polymer with 6,6-dimethyl-2-methylenebicyclo[3.1.1]heptane	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

**Exposure Limits:** Oil Mist: 5 mg/m<sup>3</sup> OSHA PEL / 10 mg/m<sup>3</sup> ACGIH.

**Carcinogen Data:** This product contains no ingredients (at greater than 0.1%) that are suspected of being or known to be a carcinogen under OSHA, NTP or IARC.

CAS No.	Ingredient	Source	Value
0009005-65-6	Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
CAS No.	Ingredient	Source	Value
0031393-98-3	Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-, polymer with 6,6-dimethyl-2-methylenebicyclo[3.1.1]heptane	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No

### [PERSONAL PROTECTIVE EQUIPMENT]

**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.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Pale Liquid
Odor:	Fatty
Odor Threshold:	Not Measured
pH:	4.5 - 5.5 (1% aqueous dilution)
Specific Gravity:	0.96 - 0.98 @ 20°C
Flashpoint:	>200°F (>93°C) SETA Flash Closed Cup
Solubility in Water:	Not Measured
Viscosity (cSt):	Not Measured
VOC%:	Not Measured
Vapor Pressure (Pa):	Not Measured
Vapor Density:	Not Measured
Melting/Freezing Points:	Not Measured
Initial Boiling Point/Range (°F/°C):	Not Measured
Flammability (Solid,Gas):	Not Applicable
Upper Flammability/Explosive Limits:	Not Measured
Lower Flammability/Explosive Limits:	Not Measured
Decomposition Temperature:	Not Measured
Auto-Ignition Temperature:	Not Measured
Partition Co-Efficient n-octanol/water (Log Kow):	Not Measured
Evaporation Rate (Ether=1):	Not Measured
Other:	DMSO extract by IP346: Less than 3.0 wt % (mineral oil component only).

## SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Not chemically reactive.
Chemical Stability:	Stable under normal ambient and anticipated conditions of use.
Hazardous Reactions:	Hazardous reactions not anticipated.
Conditions To Avoid:	Extended exposure to high temperatures can cause decomposition. Avoid all possible sources of ignition.
Incompatible Materials:	Oxidizing agents.
Hazardous Decomposition Products:	Not anticipated under normal conditions of use.

## SECTION 11: TOXICOLOGICAL INFORMATION

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

	[ACUTE TOXICITY ESTIMATE]
Ingredients:	Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-, polymer with 6,6-dimethyl-2-methylenebicyclo[3.1.1]heptane
Oral LD50mg/kg:	>5,000.00
Skin LD50mg/kg:	>5,050.00
Inhalation Vapor LC50mg/L/4hr:	>20.00
Inhalation Dust/Mist LC50mg/L/4hr:	>11.00

ITEM	HAZARD	CATEGORY
Acute Toxicity (mouth):	Not Applicable	--
Acute Toxicity (skin):	Not Applicable	--
Acute Toxicity (inhalation):	Not Applicable	--
Skin Corrosion/Irritation:	Causes mild skin irritation. (Not adopted by EU CLP.)	3
Eye Damage/Irritation:	Not Applicable	--
Sensitization (respiratory):	Not Applicable	--
Sensitization (skin):	Not Applicable	--
Germ Toxicity:	Not Applicable	--
Carcinogenicity:	Not Applicable	--
Reproductive Toxicity:	Not Applicable	--
Specific Target Organ Systemic Toxicity-Single Exposure:	Not Applicable	--
Specific Target Organ Systemic Toxicity-Repeated Exposure:	Not Applicable	--
Aspiration Hazard:	Not Applicable	--

## SECTION 12: ECOLOGICAL INFORMATION

Toxicity:	No additional information provided for this product.
Aquatic Toxicity:	No additional information provided for this product.
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. Dispose of contents in accordance with local and national regulations.
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## SECTION 14: TRANSPORT INFORMATION

<b>DOT Proper Shipping Name:</b>	Not Applicable
<b>DOT Hazard Class:</b>	Not Regulated
<b>DOT Packing Group:</b>	Not Regulated
<b>DOT Label:</b>	Not Regulated
<b>IMDG Proper Shipping Name:</b>	Not Applicable
<b>IMDG Hazard Class:</b>	Not Regulated
<b>IMDG Packing Group:</b>	Not Regulated
<b>IMDG Marine Pollutant:</b>	Not Regulated
<b>ICAO/IATA:</b>	Not Applicable / Not Regulated

## SECTION 15: REGULATORY INFORMATION

[SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE]

**EU Legislation:** Regulation (EU) 2015/830 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

**National Legislation:** None noted.

**Chemical Safety Assessment:** No chemical safety assessment has been carried out.

## 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. Company accepts 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.