


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
Product Identity	Bio-Film Extra
Reference/Item Number	BFE01
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 HAZARD(S) IDENTIFICATION	
<i>Using the toxicity data listed in Sections 11 and 12, the product is labeled as follows:</i>	
[AQUATIC CHRONIC 3]:	<p>HAZARD COMMUNICATION STANDARD (HCS) PICTOGRAM(S)</p>  <p>WARNING</p>
H412: Harmful to aquatic life with long-lasting effects.	
[SKIN IRRIT. 2]:	
H315: Causes skin irritation.	
[EYE IRRIT. 2A]:	
H319: Causes serious eye irritation.	
[STOT 3]:	
H335: May cause respiratory irritation.	
[PREVENTION]:	
P273: Avoid release to the environment.	
P264: Wash thoroughly after handling.	
P260: Do not breathe mists/vapors/spray.	
P271: Use only outdoors or in a well-ventilated area.	
P280: Wear protective gloves/eye/face protection.	
[RESPONSE]:	
P301+330+331: If swallowed: Rinse mouth. Do not induce vomiting.	
P303+361+353: If on skin (or hair): Remove/take-off immediately all contaminated clothing. Rinse skin with water/shower.	
P304+340: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P305+351+338: If in eyes: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing.	
P310: Immediately call a poison center or doctor/physician.	
P363: Wash contaminated clothing before reuse.	
[STORAGE]:	
P404: Store in a closed container.	
P401: Store at ambient temperature.	
[DISPOSAL]:	
P501: Dispose of contents/container in accordance with local/national regulations.	

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS	
<i>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.</i>	
Ingredient/Chemical Designations	Weight %
Proprietary blend of surfactants and resins and base oil	100
	Proprietary
	Skin Irrit. 2; H315 / Eye Irrit. 2A; H319 / Aquatic Chronic 3; H412 / STOT 3; H335
	[1] [2]
* Contains solvent naphtha (petroleum), heavy aromatic CAS: 64742-71-8 / Contains naphthalene (<1.0%) CAS: 91-20-3	
[1] Substance classified with a health or environmental hazard.	
[2] Substance with a workplace exposure limit.	
[3] PBT-substance or vPvB-substance.	
H412: Harmful to aquatic life with long-lasting effects.	
H315: Causes skin irritation.	
H335: May cause respiratory 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]:

Overview:	Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. See section 2 for further details.
Eyes:	Causes serious eye irritation. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.
Skin:	Causes skin irritation. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin.
Inhalation:	May cause respiratory 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:	Can be dangerous when exposed to heat and flame. Containers may explode in heat of fire. Vapors may concentrate in confined areas. Irritating or toxic substances may be emitted upon thermal decomposition. Thermal decomposition products may include oxides of carbon 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. Product emulsifies in water.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	Remove sources of ignitions, do not turn lights, or unprotected electrical equipment, on or off. In case of a major spill, or spillage in a confined space, evacuate the area and check that solvent vapor levels are below the Lower Explosive Limit (LEL) before re-entering.
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:	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 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. [PREVENTION].
Conditions For Safe Storage:	Store in tightly closed containers in dry, well-ventilated area away from excessive heat and incompatibles. Protect containers from physical damage. Store at ambient or lower temperature. See Section 2 for further details [STORAGE].
Incompatible Materials:	Strong acids, strong gases, strong oxidizers.
Specific End Use(s):	Surfactant

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Data: This product contains the following ingredients with established limits for exposure under OSHA, ACGIH and/or NIOSH.

CAS No.	Ingestion	Source	Value
0000091-20-3	Naphthalene	OSHA	TWA 10 ppm (50mg/m ³) STEL 15 ppm
		ACGIH	TWA 10 ppm STEL 15 ppm Skin 2B
		NIOSH	TWA 10 ppm (50 mg/m ³) ST 15 ppm (75 mg/m ³)

Carcinogen Data: This product contains the following ingredient (at greater than 0.1%) that is suspected of being or known to be a carcinogen under OSHA, NTP, IARC.

CAS No.	Ingestion	Source	Value
0000091-20-3	Naphthalene	OSHA	Select carcinogen: No
		NTP	Known: No / Suspected: Yes
		IARC	Group 1: No / Group 2a: No / Group 2b: Yes / Group 3: No / Group 4: No

[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:	Contains mineral oil. The exposure limits for oil mist are 5mg/m ³ OSHA PEL, and 10 mg/m ³ ACGIH. See Section 2 for further details [PREVENTION].

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear yellow liquid	Upper Flammability Limits:	Upper Explosive Limit: Not measured
Odor:	Aromatic	Lower Flammability Limits:	Lower Explosive Limit: Not measured
Odor Threshold:	Not measured	Vapor Pressure (Pa):	Not measured
pH:	6-7	Vapor Density:	Not measured
Melting/Freezing Points (°C):	Not measured	Solubility in Water:	Dispersible
Initial Boiling Point/Range (°C):	No Established Limit (C) / No Established Limit (F)	Partition Co-efficient n-octanol/water (Log Kow):	Not measured
Flash Point:	>94°C / >200°F Tagged 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	1.00	VOC%:	Not measured
Other Information:	None		

SECTION 10**STABILITY AND REACTIVITY**

Reactivity:	Hazardous polymerization will not occur.
Chemical Stability:	Stable under normal handling conditions.
Hazardous Reactions:	Thermal decomposition in the presence of air produces oxide of carbon.
Conditions To Avoid:	Strong acids, strong bases, strong oxidizers. Extreme heat/open flame/sparks and other sources of ignition.
Incompatible Materials:	Strong acids, strong bases, strong oxidizers.
Hazardous Decomposition Prod.:	Thermal decomposition in the presence of air produces oxide of carbon.

SECTION 11**TOXICOLOGICAL INFORMATION**

Acute Toxicity: Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

ATE (Acute Toxicity Estimate):	Ingredients	Oral LD50 mg/kg	Skin LD50mg/kg	Inhalation Vapor/Dust/Mist LD50mg/L/4hr
	Proprietary Blend	>5,000 (Rat)/Category NA	>5,000 (Rabbit)/Category NA	ND
Category --:	Item: Acute Toxicity (mouth) / Hazard: Not applicable.			
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 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 provided for this product. See Section 3 for chemical specific data.
Aquatic Ecotoxicity:	This product is expected to be harmful to the aquatic life with long-lasting effects.
Persistence and Degradability:	This product cannot be considered readily biodegradable. However, the product may be biodegradable under environmental conditions.
Bioaccumulative Potential:	No data available.
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.

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: 1,539 gal. / 12,821 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	ICAO/IATA (Air Transportation):
Packing Group:	Not applicable	Not regulated

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:	Not regulated.
US EPA Tier II Hazards:	Fire: No / Sudden Release of Pressure: No / Reactive: No / Immediate (acute): No / Delayed (chronic): Yes
EPCRA 311/312:	Chemicals and RQs (>0.1%): Naphthalene (100.00)
EPCRA 302:	Extremely Hazardous (>0.1%): No product ingredients listed
EPCRA 313	Toxic Chemicals (>0.1%): 1,2,4-trimethylbenzene / Naphthalene
Proposition 65	Carcinogens (>0.0%): Naphthalene / Oxirane, methyl-
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%):	
Penn RTK Substances (>1%):	

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.