

SAFETY DATA SHEET



SECTION 1: IDENTIFICATION

1.1. Company Information	KALO, Inc., 13200 Metcalf Ave., Ste. 250, Overland Park, KS 66213
1.2. Phone Numbers	800-255-5196 / 913-491-9146 FAX
1.3. Website	www.kalo.com
1.4. Product Identity	BIO-FILM EXTRA
1.5. Reference/Item Number	BFE01, BFE02, BFE30, BFE55, BFE265
1.6. Intended Use	Refer to package label.
1.7. Application Method	Refer to package label.
1.8. 24 HOUR EMERGENCY NUMBER/CHEMTREC (USA)	1-800-424-9300
1.9. POISON CONTROL CENTER (USA)	1-800-222-1212

SECTION 2: HAZARDS IDENTIFICATION

2.1. LABEL ELEMENTS: Using the toxicity data listed in Sections 11 and 12, the product is labeled as follows:



WARNING

2.2. Acute Tox 5:	H303: May be harmful if swallowed. (Not adopted by U.S. OSHA.) H313: May be harmful in contact with skin. (Not adopted by U.S. OSHA.)
2.3. Skin Irritant 2:	H315: Causes skin irritation.
2.4. Eye Irritant 2:	H319: Causes serious eye irritation.
2.5. Prevention:	P280: Wear protective gloves and eye/face protection. P264: Wash thoroughly after handling.
2.6. Response:	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. P302+352: IF ON SKIN: Wash with plenty of soap and water. P332+313: If skin irritation occurs, get medical advice/attention. P363: Wash contaminated clothing before reuse.
2.7. Storage:	No GHS storage statements.
2.8. Disposal:	No GHS storage statements.
2.9. Other Hazards:	This product contains no PBT/vPvB chemicals.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product contains the following substances that present a hazard within the meaning of the OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7). The chemical identities and exact weight percentages are being withheld as a Trade Secret.

3.1. Ingredient/Chemical Designations:	Proprietary Surfactant
3.2. CAS No.:	Proprietary
3.3. Weight %:	20 - 50%
3.4. Notes:	Substance classified with a health or environmental hazard.
3.5. Ingredient/Chemical Designations:	Proprietary Solvent
3.6. CAS No.:	Proprietary
3.7. Weight %:	1.0% - 10%
3.8. Notes:	Substance classified with a health or environmental hazard.
3.9. Ingredient/Chemical Designations:	Proprietary Solvent
3.10. CAS No.:	Proprietary
3.11. Weight %:	1.0% - 10%
3.12. Notes:	Substance classified with a health or environmental hazard.
3.13. Ingredient/Chemical Designations:	Proprietary Solvent
3.14. CAS No.:	Proprietary
3.15. Weight %:	1.0% - 10%
3.16. Notes:	Substance classified with a health or environmental hazard. Substance with a workplace exposure limit.

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

4.1. General:	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
4.2. 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.
4.3. Eyes:	Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention.
4.4. Skin:	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Do NOT use solvents or thinners.
4.5. Ingestion:	If accidentally swallowed, obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

4.6. Overview:	No adverse symptoms or effects anticipated under normal handling conditions. See Section 2 for further details.
4.7. Eyes:	Causes serious eye irritation.
4.8. Skin:	May be harmful in contact with skin. (Not adopted by U.S. OSHA.) Causes skin irritation.
4.9. Ingestion:	May be harmful if swallowed. (Not adopted by U.S. OSHA.)

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media:	Alcohol resistant foam, CO ₂ , powder, or water spray. Do not use water jet.
5.2. Special Hazards Arising From the Substance/Mixture:	Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed. Never use welding or cutting torches on or near container, even if empty.
5.3. 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.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment, Emergency Procedures:	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.
6.2. Environmental Precautions:	Do not allow spills to enter drains or water courses.
6.3. 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

7.1. 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 good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and wash before reuse. Destroy contaminated belts and shoes and other items that cannot be decontaminated. Have eyewash accessible to use in handling area. See Section 2 for further details.
7.2. Conditions For Safe Storage:	Store in tightly closed containers in dry, well-ventilated area, away from excessive heat and incompatibles. See Section 2 for further details.
7.3. Incompatible Materials:	Oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS/EXPOSURE

CAS No.	Ingredient	Source	Value
Proprietary	Proprietary Surfactant	OSHA	No Established Limit
		ACGIH	Ceiling: 25 ppm
		NIOSH	C 25 ppm (125 mg/ m ³)
CAS No.	Ingredient	Source	Value
Proprietary	Proprietary Solvent	OSHA	TWA: 5 mg/m ³ 8 hours
		ACGIH	TWA: 5 mg/m ³ / STEL: 10 mg/m ³ as oil mist, if generated
		NIOSH	No Established Limit
CAS No.	Ingredient	Source	Value
Proprietary	Proprietary Solvent	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
CAS No.	Ingredient	Source	Value
Proprietary	Proprietary Surfactant	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

EXPOSURE CONTROLS

8.2. Respiratory:	If workers are exposed to concentrations above the exposure limit, they must use the appropriate certified respirators.
8.3. Eyes:	Wear safety eyewear (e.g. safety spectacles/goggles/visors) to protect against the splash of liquids.
8.4. 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.
8.5. 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.
8.6. Other Work Practices:	See product label.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. The physical properties and reported values are typical values based on the material tested but may vary from sample to sample. Thus, typical values should not be construed as a guaranteed analysis of any specific lot/batch or specification item.

Appearance:	Hazy Yellow Liquid	Initial Boiling Point/Range:	Not Measured
Odor:	Solvent Odor	Melting Point/Range:	Not Measured
Odor Threshold:	Not Measured	Flammability (Solid, Gas):	Not Applicable
pH:	5 - 7 (1% aqueous solution)	Upper Flammability/Explosive Limits:	Not Measured
Specific Gravity:	0.98 - 1.0 @ 20°C	Lower Flammability/Explosive Limits:	Not Measured
Flashpoint and Method:	>200°F (>93.33°C) SCC	Decomposition Temperature:	Not Measured
Solubility in Water:	Dispersible	Auto-Ignition Temperature:	Not Measured
Viscosity (dynamic):	Not Measured	Volatility:	Not Measured
Viscosity (kinematic):	Not Measured	Molecular Weight:	Not Measured
VOC%:	Not Measured	Oxidizing Properties:	Not Measured
Vapor Pressure (Pa):	Not Measured	Partition Co-Efficient n-octanol/water (Log Pow):	Not Measured
Vapor Density (air=1):	Not Measured	Evaporation Rate (Butyl Acetate=1):	Not Measured
Density (water=1):	Not Measured	Surface Tension:	Not Measured
Density (liquid):	Not Measured	Particle Size:	Not Measured
Freezing Point:	Not Measured	Other:	No other relevant information.

SECTION 10: STABILITY AND REACTIVITY

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

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SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY ESTIMATE (ATE): 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.

11.1. Ingredients:	Proprietary Solvent and Surfactants
11.2. Oral, LD50mg/kg:	>2,000.00
11.3. Skin, LD50mg/kg:	>2,000.00
11.4. Inhalation Vapor, LC50, mg/L/4hr:	>20.00
11.5. Inhalation Dust/Mist, LC50, mg/L/4hr:	>5.00
11.6. Inhalation Gas, LC50, ppm:	No Data Available

CARCINOGEN: 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.

CLASSIFICATION	HAZARD DESCRIPTION	CATEGORY
Acute Toxicity (mouth):	May be harmful if swallowed. (Not adopted by U.S. OSHA.)	5
Acute Toxicity (skin):	May be harmful in contact with skin. (Not adopted by U.S. OSHA.)	5
Acute Toxicity (inhalation):	Not Applicable	--
Skin Corrosion/Irritation:	Causes skin irritation.	2
Eye Damage/Irritation:	Causes serious eye irritation.	2
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

12.1. Toxicity:	No additional information provided for this product.
12.2. Aquatic Ecotoxicity:	Ecotoxicity studies have not been conducted on this preparation.
12.3. Persistence and Degradability:	There is no data available on the preparation itself.
12.4. Bioaccumulative Potential:	Not available.
12.5. Mobility In Soil:	No data available.
12.6. Results of PBT and vPvB Assess:	This product contains no PBT/vPvB chemicals.
12.7. Other Adverse Effects:	No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. 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.
13.2. Recycling Consideration:	Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler, visit www.agrecycling.org .


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SECTION 14: TRANSPORT INFORMATION

14.1. DOT Proper Shipping Name:	REGULATED IN CONTAINERS GREATER THAN 119 GALLONS ONLY! UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (nonylphenol), 9, PGIII, Marine Pollutant
14.2. DOT Hazard Class:	9
14.3. DOT Packing Group:	III
14.4. DOT Label:	9
14.5. IMDG Proper Shipping Name:	UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (nonylphenol), 9, PGIII, Marine Pollutant
14.6. IMDG Hazard Class:	9
14.7. IMDG Packing Group:	III
14.8. IMDG Marine Pollutant:	Yes
14.9. ICAO/IATA:	See bill of lading
14.10 CERCLA/DOT RQ	This material is shipped as a Class 9, Packing Group III, Marine Pollutant when each package meets or exceeds 119 gallons (450 liters). Otherwise, it may be shipped as not regulated. (49 CFR § 171.4(c)(1)).

SECTION 15: REGULATORY INFORMATION

15.1. Regulatory Overview:	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).
15.2. Toxic Substance Control Act (TSCA):	All ingredients of this product are listed on the TSCA inventory, or are not required to be listed on the TSCA inventory.
15.3. National Fire Protection Association (NFPA):	Health Hazards: ND Flammability: ND Instability: ND Special Hazards: --
15.4. U.S. EPA Tier II Hazards:	Fire=NQ Sudden Release of Pressure=NQ Reactive=NQ Immediate (acute)=YES Delayed (chronic)=NQ
15.5. EPCRA 302--Extremely Hazardous (0.1%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
15.6. EPCRA 311/312--Chemicals and RQs (>0.1%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
15.7. EPCRA 313--Toxic Chemicals (>0.1%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
15.8. Proposition 65--Carcinogens (>0.0%):	Oxirane / Naphthalene / 1,4-dioxane
15.9. Proposition 65--Developmental Toxins (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
15.10. Proposition 65--Female Repro Toxins (>0.0%):	Oxirane
15.11. Proposition 65--Male Repro Toxins (>0.0%):	Oxirane
15.12. Proposition 65--Label Warning:	 WARNING: This product can expose you to chemicals including oxirane, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov .
15.13. N.J. RTK Substances (>1%):	2-methylpentane-2,4-diol
15.14. PENN RTK Substances (>1%):	2-methylpentane-2,4-diol

SECTION 16: OTHER INFORMATION

16.1. 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.