



SECTION 1 IDENTIFICATION

Company Name KALO, Inc.
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 **Bio-90**
Reference/Item Number BI9001, BI9002, BI9030, BI90265
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

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

[SKIN IRRITANT 2]:

H315: Causes skin irritation.

[EYE IRRITANT 2B]:

H320: Causes eye irritation.

[PREVENTION]:

- P264:** Wash thoroughly after handling.
- P270:** Do not eat, drink or smoke when using this product.
- P280:** Wear protective gloves/eye/face protection.

[RESPONSE]:

- P302+352:** IF ON SKIN: Wash with plenty of soap and water.
- P305+351+338:** IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing.
- P312:** Call a poison center or doctor/physician if you feel unwell.
- P337+313:** If eye irritation persists, get medical advice/attention.
- P362:** Take off contaminated clothing and wash before reuse.
- P363:** Wash contaminated clothing before reuse.

[STORAGE]:

- P402+404:** Store in a dry place. Store in a closed container.
- P401:** Store between 40°F and 120°F.

[DISPOSAL]:

- P501:** Dispose of contents/container in accordance with local/national regulations.

HAZARD COMMUNICATION STANDARD (HCS) PICTOGRAM(S)



WARNING

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

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.

<u>Ingredient/Chemical Designations</u>	<u>Weight %</u>	<u>CAS Number</u>	<u>GHS Classification</u>	<u>Notes</u>
Proprietary nonionic surfactant blend	100	Proprietary	Skin Irrit. 2; H315 / Eye Irrit. 2; H320	[1]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

H315: Causes skin irritation.

H320: Causes 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:	
Eyes:	Causes eye irritation.
Skin:	Causes skin 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:	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:	Cool closed containers exposed to fire by spraying them with water. Do not allow run-off water and contaminants from fire-fighting to enter drains or water courses.
ERG Guide No.	----

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:	Handle containers carefully to prevent damage and spillage. See Section 2 for further details [PREVENTION].
Conditions For Safe Storage:	Handle containers carefully to prevent damage and spillage. See Section 2 for further details [STORAGE].
Incompatible Materials:	Oxidizing agents such as hydrogen peroxide, bromine, and chromic acid.
Specific End Use(s):	No data available.

SECTION 8**EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure Data:	This product contains no ingredients with established limits for exposure.
Carcinogen Data:	This product contains no ingredients that are suspected of being or known to be a carcinogen under OSHA, NTP, IARC.

[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:	No data available. 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 amber liquid	Upper Flammability Limits:	Upper Explosive Limit: Not measured
Odor:	Fatty	Lower Flammability Limits:	Lower Explosive Limit: Not measured
Odor Threshold:	Not measured	Vapor Pressure (Pa):	Not measured
pH:	5-7	Vapor Density:	Heavier than air
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 Pensky Martins Closed Cup (PMCC)	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	1.02 @ 20°C	VOC%:	Not measured
Other Information:	DMSO extract by IP346: less than 3.0 wt % (mineral oil component only)		

SECTION 10**STABILITY AND REACTIVITY**

Reactivity:	Thermal decomposition by burning will produce carbon monoxide and carbon dioxide.
Chemical Stability:	Stable under normal conditions.
Hazardous Reactions:	Thermal decomposition by burning will produce carbon monoxide and carbon dioxide.
Conditions To Avoid:	Oxidizing agents. Extreme heat/open flame/sparks and other sources of ignition.
Incompatible Materials:	Oxidizing agents.
Hazardous Decomposition Prod.:	Carbon monoxide and carbon dioxide from burning.

SECTION 11**TOXICOLOGICAL INFORMATION**

Acute Toxicity:	Ingredients	Oral LD50 mg/kg	Skin LD50mg/kg	Inhalation Vapor/Dust/Mist LD50mg/L/4hr
	Proprietary Ingredient 1	20,000 (Rat)/Category NA	20,800 (Rabbit)/Category NA	Vapor: 105 (Rat) / Dust, Mist: ND
	Proprietary Ingredient 2	3,200 (Rat)/Category 5	ND	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 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 --:	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**

Toxicity:	No additional information provided for this product. See Section 3 for chemical specific data.
Aquatic Ecotoxicity:	This product is not expected to be toxic to the aquatic environment.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	Bioaccumulation is not expected to be significant.
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.
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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: NA gal. / NA 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	
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:	Not regulated
US EPA Tier II Hazards:	Fire: No / Sudden Release of Pressure: No / Reactive: No / Immediate (acute): No / 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
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%):	Propanediol
Penn RTK Substances (>1%):	Propanediol

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.