

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	KALO 90/10 NIS
1.5. Reference/Item Number	K901001, K901002, K901030, K901055, K9010265
1.6. Intended Use	Nonionic Surfactant
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. HAZARD COMMUNICATION STANDARD (HCS) PICTOGRAM(S) AND SIGNAL WORD(S)



WARNING

2.2. Acute Tox (oral) 4:	H302: Harmful if swallowed.
2.3. Skin Irrit. 2:	H315: Causes skin irritation.
2.3. Eye Irrit. 2B:	H320: Causes eye irritation.
2.4. Flamm Liq. 4:	H227: Combustible liquid (over 119 gallons).
2.5. Prevention:	P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P280: Wear protective gloves and eye/face protection. P264: Wash skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P261: Avoid breathing dust, fume, gas, mist, vapors, spray. P271: Use only outdoors or in a well-ventilated area. P273: Avoid release into the environment. P285: In case of inadequate ventilation, wear respiratory protection.
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. P315: Get immediate medical advice/attention. 301+312: IF SWALLOWED: Call a poison center or doctor/physician if you feel unwell. Treat symptomatically. P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312: Call a poison center or doctor if you feel unwell. P302+352: IF ON SKIN: Wash with plenty of soap and water. P332+313: If skin irritation occurs, get medical advice/attention. P362: Take off contaminated clothing and wash before reuse.
2.7. Storage:	P235: Keep cool. P403: Store in a well-ventilated place. P233: Keep container tightly closed. P405: Store locked up.
2.8. Disposal:	P501: Dispose of contents/container in accordance with local/national regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. 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 a trade secret.

3.2. Ingredient/Chemical Designations:	Proprietary Blend
3.2. CAS No.:	Proprietary
3.3. Weight %:	90.0%
3.4. Notes:	Substance classified with a health or environmental hazard. Substance with a workplace exposure limit.
3.5. Ingredient/Chemical Designations:	Inert Ingredients
3.6. CAS No.:	Proprietary
3.7. Weight %:	10.0%
3.8. Notes:	

SECTION 4: FIRST AID MEASURES

[DESCRIPTIONS]

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 eye irritation.
4.8. Skin:	Causes skin irritation.
4.9. Inhalation:	Harmful if swallowed.

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:	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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Precautions/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.
7.4. Specific End Use(s):	See product label.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure Data:	This product contains no ingredients (at greater than 0.1%) with established limits for exposure under OSHA, ACGIH and/or NIOSH.
8.2. 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.

[EXPOSURE CONTROLS]

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

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Golden to Amber Liquid	Initial Boiling Point/Range:	212°F
Odor:	Slight Alcohol	Melting Point/Range:	<32°F
Odor Threshold:	Not Measured	Flammability (Solid, Gas):	Not Measured
pH @ 5% Dilution:	5.5 - 7.0	Upper Flammability/Explosive Limits:	Not Measured
Specific Gravity:	1.00	Lower Flammability/Explosive Limits:	Not Measured
Flashpoint and Method:	>140°F / <200°F (93°C)	Decomposition Temperature:	Not Measured
Solubility in Water:	Complete	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):	8.4 lbs/gallon	Particle Size:	Not Measured
Freezing Point:	28°F	Other:	No other relevant information.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:	Thermally stable at typical use temperatures and in closed containers.
10.2. Chemical Stability:	Stable under normal ambient and anticipated conditions of use, and recommended storage conditions.
10.3. 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:	Carbon monoxide and asphyxiates.

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SECTION 11: TOXICOLOGICAL INFORMATION

	[ACUTE TOXICITY ESTIMATE]
11.1. Ingredients:	Proprietary Blend
11.2. Oral LD50mg/kg:	>1,300.00 mg/kg
11.3. Skin LD50mg/kg:	2 g/kg
11.4. Inhalation Vapor LC50, mg/L/4hr:	No Data Available
11.5. Inhalation Dust/Mist LC50, mg/L/4hr:	No Data Available
11.6. Inhalation Gas, LC50, ppm	No Data Available

ITEM	HAZARD	CATEGORY
Acute Toxicity (mouth):	Harmful if swallowed.	4
Acute Toxicity (skin):	Not Applicable	--
Acute Toxicity (inhalation):	Not Applicable	--
Skin Corrosion/Irritation:	Causes skin irritation.	2
Eye Damage/Irritation:	Causes eye irritation.	2B
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. Aquatic Toxicity: Algal Toxicity:	Fish (daphnia magna): LC50, 48h = 1 mg/L • 96h = 1 mg/L Algae: LC50, 96h = 1 mg/L
12.2. Persistence and Degradability:	There is no data available on the preparation itself.
12.3. Bioaccumulative Potential:	Not measured.
12.4. Mobility In Soil:	No data available.
12.5. Results of PBT and vPvB Assess:	This product contains no PBT/vPvB chemicals.
12.6. Other Adverse Effects:	Do not contaminate water supplies, lakes, streams, ponds or drains with this product.

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.
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SECTION 14: TRANSPORT INFORMATION

14.1. DOT Proper Shipping Name:	Not Regulated
14.2. DOT Hazard Class:	Not Applicable
14.3. DOT Packing Group:	Not Applicable
14.4. DOT Label:	None
14.5. IMDG Proper Shipping Name:	Not Regulated
14.6. IMDG Hazard Class:	Not Applicable
14.7. IMDG Packing Group:	Not Applicable
14.8. IMDG Marine Pollutant:	No
14.9. ICAO/IATA:	See Bill of Lading

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.
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. WHMIS Classification:	Not regulated. This product contains no endocrine disrupting chemicals.
15.4. U.S. EPA Tier II Hazards:	Fire=NO Sudden Release of Pressure=NO Reactive=NO Immediate (acute)=YES Delayed (chronic)=NO
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%):	Polyethylene glycol nonylphenyl ether / Alcohols (C10-C16) / Ethoxylated
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%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
15.11. Proposition 65–Male Repro Toxins (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
15.12. N.J. RTK Substances (>1%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
15.13. PENN RTK Substances (>1%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

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.