



SECTION 1

IDENTIFICATION

Company Name	KALO, Inc.	24 HOUR EMERGENCY NUMBER/CHEMTREC (USA) 1-800-424-9300 Poison Control Center (USA) 1-800-222-1212
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	K-Klean	
Reference/Item Number	KKLEAN01	
Intended Use	Cleaner. Degreaser.	
Application Method	See technical data sheet.	

SECTION 2

HAZARD(S) IDENTIFICATION

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

[ACUTE TOXICITY (ORAL)]:

H303: May be harmful if swallowed.

[SKIN CORR./IRRIT. 2 (DERMAL)]:

H315: Causes skin irritation.

[EYE DAM./IRRIT 1]:

H318: Causes serious eye damage.

[PREVENTION]:

P102: Keep out of reach of children.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke while using this product.

P280: Wear protective glove/clothing and eye/face protection.

[RESPONSE]:

P301+312: If swallowed: Call a poison center or doctor/physician 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.

P305+310: If in eyes: Immediately call a poison center or doctor/physician.

P305+351+338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

[STORAGE]:

P233: Keep container tightly closed.

P404: Store in a closed container.

[DISPOSAL]:

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

[ACUTE EFFECTS]:

Eyes: Causes irritation seen as redness and tearing. May cause serious eye damage.

Skin: May cause irritation and slight redness.

Inhalation: Excessive inhalation may cause drowsiness, light-headedness, weakness or headache.

Ingestion: Nausea, vomiting, diarrhea and gastrointestinal disorder may occur when ingested in large quantities. May cause burning of mouth and throat.

HAZARD COMMUNICATION STANDARD (HCS) PICTOGRAM(S)**DANGER**

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.

Ingredient/Chemical Designations	Weight %	CAS Number
Sodium metasilicate	<3	6834-92-0
Sodium tripolyphosphate	<3	7758-29-4

H303: May be harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

SECTION 4**FIRST AID MEASURES**

Eyes: Flush immediately with clean water for 15 minutes, lifting up eye lids. Seek immediate medical attention.

Skin: If irritation occurs, flush with plenty of clean water. Seek medical attention if a rash occurs or if irritation persists.

Ingestion: Do not induce vomiting. Give several glasses of water. Never give anything to an unconscious person orally. Seek immediate medical attention.

Inhalation: Remove person to fresh air. Begin CPR if breathing has stopped and seek immediate medical attention.

Notes to Physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Antidotes: Treat symptomatically; no specific antidote available.

Additional Information: Have the product container or label with you when calling a poison control center or doctor, or going in for treatment. For emergency medical assistance call CHEMTREC 1-800-424-9300.

SECTION 5**FIRE FIGHTING MEASURES**

General Hazard: Toxic fumes may be emitted in a fire situation.

Extinguishing Media: Water, fog, dry chemical, CO2 or alcohol foam.

Hazardous Combustion Products: N/A

Explosion/Fire Hazards: Never use welding or cutting torches on or near drum even if empty.

Fire Fighting Procedures: Use water spray to cool fire-exposed containers.

Fire Fighting Equipment: Use a self-contained breathing apparatus.

SECTION 6**ACCIDENTAL RELEASE MEASURES**

Small Spill: Contain material. Absorb with an inert material. Flush cleaned area thoroughly with water. Check local, state, and federal regulations for proper disposal.

Environmental Precautions: **Water Spill:** Do not contaminate any body of water. **Land Spill:** Avoid runoff onto any adjacent land.

Special Protective Equipment: Always wear proper protective equipment when handling this product.

SECTION 7**HANDLING AND STORAGE**

Handling: Have eyewash accessible to use in handling area.

Storage: Keep container tightly closed when not in use. Avoid breathing spray mist. Keep out of the reach of children.

SECTION 8**EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Controls: Local exhaust is normally adequate. Use mechanical ventilation if build-up of mist or vapors is likely.

Other Use Precautions: Avoid contact with skin, eyes, and clothing. Avoid breathing vapors. Wash thoroughly after handling product. Eye wash fountains and drench showers should be located within 100 feet or a 10 second walk from the work area per ANSI Z358.1-1990

[PERSONAL PROTECTIVE EQUIPMENT]

Eyes and Face: Wear chemical goggles or shielded safety glasses (ANSI Z87.1 or approved equivalent) when handling and mixing product. Contact lenses should not be worn when working with chemicals.

Skin: Wear chemical-resistant gloves such as rubber or neoprene, coveralls over long-sleeved shirt, long pants and chemical resistant footwear plus socks. Chemical resistant headgear for overhead exposure. When exposed to product concentrate, wear a chemical resistant apron.

Respiratory: Use NIOSH approved respirator if TLV are reached or exceeded.

Protective Clothing: Eye protection, long sleeved shirt and long pants, shoes plus socks and chemical resistant gloves. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Clear to straw colored liquid

Odor: Citrus

Odor Threshold: Not measured

pH: 13-Dec

Melting/Freezing Points (°C): Not measured

Initial Boiling Point/Range (°C): No Established Limit (C) / No Established Limit (F)

Flash Point: Not measured

Evaporation Rate (Ether=1): 1.00

Flammability (Solid, Gas): Not flammable

Specific Gravity @ 20°C 1.05-1.10

Other Information: No other relevant information.

Upper Flammability Limits: Upper Explosive Limit: Not measured

Lower Flammability Limits: Lower Explosive Limit: Not measured

Vapor Pressure (Pa): Not measured

Vapor Density: Not measured

Solubility in Water: Soluble

Partition Co-efficient n-octanol/water (Log Kow): Not measured

Auto-Ignition Temperature (°C): Not measured

Decomposition Temperature: Not measured

Viscosity (cSt): Not measured

VOC %: Not measured

SECTION 10 STABILITY AND REACTIVITY

Stability and Reactivity:	Stable
Hazardous Polymerization:	Will not occur
Conditions To Avoid:	NA
Hazardous Decomposition Prod.	CO, CO2 upon thermal decomposition
Incompatible Materials:	Strong oxidizers

SECTION 11 TOXICOLOGICAL INFORMATION

There is no toxicological data for this product as a whole. Based on relevant ingredients with known acute toxicity, the acute toxicity estimate using the additive formula (ATE) has been determined.

Acute Toxicity:	Oral	Dermal	Inhalation
	2,605mg/kg (ATE determined practically non-toxic)	11,367mg/kg (ATE determined practically non-toxic)	33.8mg/l (ATE determined practically non-toxic)
Category --:	Item: Acute Toxicity (mouth) / Hazard: Not applicable.	Routes of Entry:	Dermal, oral, inhalation
Category --:	Item: Acute Toxicity (skin) / Hazard: Not applicable.	Symptoms:	Irritation and redness
Category --:	Item: Acute Toxicity (inhalation) / Hazard: Not applicable.	Skin Irritant:	May cause irritation to skin
Category 2:	Item: Skin Corrosion/Irritation / Hazard: Causes skin irritation.	Eye Irritant:	Due to high pH, may cause serious damage to eyes.
Category 1:	Item: Eye Damage/Irritation / Hazard: Causes serious eye damage.	Sensitizers:	No information found
Category --:	Item: Sensitization (respiratory) / Hazard: Not applicable.	Mutagenicity:	No information found
Category --:	Item: Sensitization (skin) / Hazard: Not applicable.	Carcinogenicity:	No ingredient listed
Category --:	Item: Germ Toxicity / Hazard: Not applicable.	Reproductive Toxicity:	No information found
Category --:	Item: Carcinogenicity / Hazard: Not applicable.	Target Organs:	No target organs
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

Environmental Data:	No ecological information found.
Aquatic Ecotoxicity:	No data available.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
Results of PBT and vPvB Assess:	No data available.
Other Adverse Effects:	No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Do not reuse product containers. Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state, and federal pollution control regulations.

SECTION 14 TRANSPORT INFORMATION

UN Number:	Not regulated.	
UN Proper Shipping Name:	General cleaning solution.	
	NOTE: DOT Classification applies to most packaging sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.	
Transport Hazard Class(es):	<u>DOT (Domestic Surface Transportation):</u>	<u>IMO/IMDG (Ocean Transportation) and IATA (Air Transportation):</u>
	DOT Proper Shipping: General cleaning solution.	IMDG/IATA Proper Shipping Name: General cleaning solution.
	DOT Hazard Class: ND	IMDG/IATA Hazard Class: ND
	DOT Label: ND	Sub Class: Not applicable
	UN/NA Number: ND	IMDG/IATA Packing Group: ND
	DOT Packing Group: ND	
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:	ND	
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:

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US EPA Tier II Hazards:

Fire: ND / Sudden Release of Pressure: ND / Reactive: ND / Immediate (acute): ND / Delayed (chronic): ND

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

CERCLA:

Sodium tripolyphosphate CAS: 7758-29-4 Quantity Values: 5,000 lbs

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%):

No product ingredients listed

Penn RTK Substances (>1%):

No product ingredients listed

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.