



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

24 HOUR EMERGENCY NUMBER/CHEMTREC (USA)
1-800-424-9300Poison Control Center (USA)
1-800-222-1212

Product Identity Restore

Reference/Item Number RES02, RES30, RES55, RES265

Intended Use See technical data sheet.

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:

[EYE DAMAGE 1]:

H318: Causes serious eye damage.

[SKIN CORR. 1B]:

H314: Causes severe skin burns and eye damage.

[STOT SE. 3]:

H335: May cause respiratory irritation.

[PREVENTION]:

P264: Wash thoroughly after handling.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves and eye/face protection.

[RESPONSE]:

P301+330+331: If swallowed: Rinse mouth. Do not induce vomiting.

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.

P303+361+353: If on skin (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340+312: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

P363: Wash contaminated clothing before reuse.

[STORAGE]:

P404+233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

[DISPOSAL]:

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

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

GHS Classification

Notes

Proprietary blend of ammonium sulfate and water conditioners 100 Proprietary Skin Corr. 1B; H314 / Eye Dam. 1; H318 / STOT SE. 3; H335 [1]

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

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H335: May cause respiratory 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.

[OVERVIEW—MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED]:

- Overview:** No adverse symptoms or effects anticipated under normal handling conditions. See Section 2 for further details.
- Eyes:** Causes serious eye damage.
- Inhalation:** May cause respiratory irritation.
- Skin:** Causes severe skin burns and eye damage.

SECTION 5**FIRE FIGHTING MEASURES**

Extinguishing Media: Recommended extinguishing media: alcohol resistant foam, CO₂, powder, water spray. Do not use; water jet.

Special Hazards: Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed. When exposed to fire, this product will release irritating or toxic fumes. Thermal decomposition products may include ammonia, oxides of: carbon, nitrogen and sulfur as well as smoke and fume. Reactions with metals may release hydrogen gas. Avoid breathing dust, fume, gas, mist, vapors and spray.

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.

ERG Guide No. ----

SECTION 6**ACCIDENTAL RELEASE MEASURES****Personal Precautions,
Protective Equipment and
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 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 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. See Section 2 for further details [STORAGE].

Incompatible Materials: Oxidizing agents, zinc clad, copper, and copper-bearing materials. See Section 2 for further details [STORAGE].

Specific End Use(s): See technical data sheet.

SECTION 8**EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure Data: Ingredients with established limits for exposure under OSHA, ACGIH and/or NIOSH are listed below:

CAS No.	Ingestion	Source	Value
0000056-81-5	Glycerol	OSHA	TWA 15mg/m ³ (total) / TWA 5mg/m ³ (resp)
		ACGIH	TWA: 3mg/m ³ (respirable) 10mg/m ³ (mist)
		NIOSH	No established RELs
0007664-38-2	Phosphoric acid	OSHA	TWA 1 mg/m ³
		ACGIH	TWA 1 mg/m ³ STEL: 3 mg/m ³
		NIOSH	TWA 1 mg/m ³ ST 3 mg/m ³

Carcinogen Data: This product contains no ingredients that are suspected of being or known to be a carcinogen under OSHA, NTP or 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. See Section 2 for further details [PREVENTION].

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear liquid	Upper Flammability Limits:	Upper Explosive Limit: Not measured
Odor:	Sweet	Lower Flammability Limits:	Lower Explosive Limit: Not measured
Odor Threshold:	Not measured	Vapor Pressure (Pa):	Not measured
pH:	2.5-3.5 (1% aqueous dilution)	Vapor Density:	Heavier than air
Melting/Freezing Points (°C):	Not measured	Solubility in Water:	Soluble
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:	>93°C / >200°F Seta Flash Closed Cup (SFCC)	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	1.23-1.24	VOC %:	Not measured
Other Information:	No other relevant information.		

SECTION 10**STABILITY AND REACTIVITY**

Reactivity:	Reactive with zinc clad, copper, and copper bearing materials.
Chemical Stability:	Stable under normal storage and handling conditions.
Hazardous Reactions:	Hazardous reactions not anticipated under recommended storage and handling conditions.
Conditions To Avoid:	Extreme heat. Open flame. Incompatibles.
Incompatible Materials:	Oxidizing agents, zinc clad, copper, and copper-bearing materials.
Hazardous Decomposition Prod.:	Not anticipated under normal conditions of use.

SECTION 11**TOXICOLOGICAL INFORMATION**

Acute Toxicity Estimate (ATE):	Ingredients	Oral LD50 mg/kg	Skin LD50mg/kg	Inhalation Vapor/Dust/Mist LD50mg/L/4hr
	Proprietary blend	>5,000.00; Category: NA	>5,000.00; Category: NA	No data available
	Glycerol (56-81-5)	12,600.00 (rat); Category: NA	10,000.00 (rabbit); Category: NA	No data available
	Phosphoric acid (7664-38-2)	1,530.00 (rat); Category: 4	2,740.00 (rabbit); Category: 5	No data available
	1,2,3-propanetricarboxylic acid, 2-hydroxy-- (77-92-9)	11,700.00 (rat); Category: NA	No data available	No data available
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 1B:	Item: Skin Corrosion/Irritation / Hazard: Causes severe skin burns and eye damage.			
Category 1:	Item: Eye Damage/Irritation / Hazard: Causes serious eye damage.			
Category --:	Item: Sensitization (respiratory) / Hazard: Not applicable.			
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 toxic to the aquatic environment. However, ecotoxicity studies have not been conducted on this preparation.
Persistence and Degradability:	There is no data available on the preparation itself.
Bioaccumulative Potential:	Not measured.
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.
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SECTION 14 TRANSPORT INFORMATION

UN Number:	UN 1760	
UN Proper Shipping Name:	UN 1760 Corrosive Liquids, N.O.S. (contains phosphoric acid), 8 PG III	
Transport Hazard Class(es):	DOT (Domestic Surface Transportation):	IMO/IMDG (Ocean Transportation) and IATA (Air Transportation):
	DOT Proper Shipping: See UN Proper Shipping Name above	IMDG/IATA Proper Shipping Name: See UN Proper Shipping Name above
	DOT Hazard Class: 8	IMDG/IATA Hazard Class: 8
	DOT Label: 8	Sub Class: Not applicable
	UN/NA Number: 1760	IMDG/IATA Packing Group: III
	DOT Packing Group: III	
Special Precautions For User:	No further information.	
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:	III	

SECTION 15 REGULATORY INFORMATION

Regulatory Overview/ TSCA:	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:	D2B E
US EPA Tier II Hazards:	Fire: <u>No</u> / Sudden Release of Pressure: <u>No</u> / Reactive: <u>No</u> / Immediate (acute): <u>Yes</u> / Delayed (chronic): <u>No</u>
EPCRA 311/312:	Chemicals and RQs (>0.1%): Phosphoric acid (5,000.00)
EPCRA 302:	Extremely Hazardous (>0.1%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
EPCRA 313	Toxic Chemicals (>0.1%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
Proposition 65	Carcinogens (>0.0%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
Proposition 65:	Developmental Toxins (>0.0%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
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.
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.
N.J. RTK Substance (>1%):	Glycerol / Phosphoric acid
Penn RTK Substances (>1%):	Glycerol / Phosphoric acid / Sulfuric acid diammonium salt

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.