

## SECTION 1 IDENTIFICATION

**Company Name** KALO, Inc.  
**Address** 13200 Metcalf Ave., Suite 250  
**City, State, Zipcode** Overland Park, KS 66213  
**Phone Numbers** 800-255-5196 / 913-491-9146 (fax)  
**Website** www.kalo.com

**24 HOUR EMERGENCY NUMBER/CHEMTREC (USA)**  
 1-800-424-9300

**Poison Control Center (USA)**  
 1-800-222-1212

**Product Identity** Entro  
**Reference/Item Number** ENT02, ENT30, ENT55, ENT265  
**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 IRRITANT 2]:**

**H319:** Causes serious eye irritation.

**[SKIN IRRITANT 2]:**

**H315:** Causes skin irritation.

**[COMBUSTIBLE LIQUID]:**

**H227:** Combustible liquid.

**[PREVENTION]:**

**P264:** Wash thoroughly after handling.  
**P280:** Wear protective gloves/eye/face protection.  
**P210:** Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
**P260:** Do not breathe mist/vapors/spray.

**[RESPONSE]:**

**P303+361+353:** If on skin (or hair): Remove/take-off immediately all contaminated clothing. Rinse skin with water/shower.  
**P305+351+338:** If in eyes, rinse continuously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing.  
**304+312:** If inhaled: Call a poison center or doctor/physician if you feel unwell.  
**P310:** Immediately call a poison center or doctor/physician.  
**P340:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
**P363:** Wash contaminated clothing before reuse.  
**P370+376:** In case of fire, stop leak if safe to do so.

**[STORAGE]:**

**P403+235:** Store in a well-ventilated space. Keep cool.  
**P405:** Store locked up.

**[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.

Ingredient/Chemical Designations	Weight %	CAS Number	GHS Classification	Notes
Proprietary blend of surfactants, modified seed oil and nitrogen fertilizer solution	100	Proprietary	Eye Irrit 2; H319 / Skin Irrit 2; H315 / Combustible Liq; H227	[1] [2]

[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.

**H319:** Causes serious eye irritation.

**H227:** Combustible Liquid

**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:** No data available. See Section 2 for further details.
- Eyes:** Causes serious eye irritation.
- Skin:** Causes skin irritation.

**SECTION 5****FIRE FIGHTING MEASURES**

- Extinguishing Media:** Recommended extinguishing media: alcohol resistant foam, CO<sub>2</sub>, powder, water spray. Do not use water jet.
- Special Hazards:** Avoid breathing dust/fume/mist/vapors spray. 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:** Evacuate area. Prevent contamination from run-off 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**

- 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. Avoid contact with eyes, skin and clothing. Avoid breathing vapor. Do not swallow. Wash thoroughly after handling. Keep container tightly closed. Use with adequate ventilation. See Section 2 for further details [PREVENTION].
- Conditions For Safe Storage:** Store in a tightly closed container. Store away from incompatible materials. Keep cool. See section 2 for further details [STORAGE].
- Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.
- Specific End Use(s):** No data available.

**SECTION 8****EXPOSURE CONTROLS/PERSONAL PROTECTION**

Ingredients with established limits for exposure are listed below:

Exposure Data:	CAS No.	Ingestion	Source	Value
	0000056-81-5	Glycerol	OSHA	TWA: 15 mg/m <sup>3</sup> (total) / TWA: 5 mg/m <sup>3</sup> [resp]
			ACGIH	TWA: 3 mg/m <sup>3</sup> [resp], 10 mg/m <sup>3</sup> [mist]
			NIOSH	No established RELs
	0000071-36-3	Butan-1-01	OSHA	TWA: 100 ppm (300 mg/m <sup>3</sup> )
			ACGIH	TWA: 15 ppm / Ceiling: 30 ppm
			NIOSH	C 50 ppm (150 mg/m <sup>3</sup> ) [skin]
	0000111-42-2	Diethanolamine	OSHA	No established limit
			ACGIH	TWA: 2 mg/m <sup>3</sup> [skin 2B] / Revised 2009, 2010
			NIOSH	TWA: 3 ppm (15 mg/m <sup>3</sup> )
	0000111-76-2	2-Butoxy-ethanol	OSHA	TWA: 50 ppm (240 mg/m <sup>3</sup> ) [skin]
			ACGIH	TWA: 20 ppm (revised 2003)
			NIOSH	TWA 5 ppm (24 mg/m <sup>3</sup> ) [skin]

**Carcinogen Data:** This product contains no ingredients that are suspected of being or known to be a carcinogen under OSHA, NTP or IARC at greater than 0.1%.

**[EXPOSURE CONTROLS]:**

- Respiratory:** If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
- Eyes:** Wear chemical goggles.
- 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 5 mg/m<sup>3</sup> OSHA PEL and 10 mg/m<sup>3</sup> ACGIH. See Section 2 for further details [PREVENTION].

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Slightly hazy pale yellow liquid	<b>Upper Flammability Limits:</b>	Upper Explosive Limit: Not measured
<b>Odor:</b>	Ammonia	<b>Lower Flammability Limits:</b>	Lower Explosive Limit: Not measured
<b>Odor Threshold:</b>	Not measured	<b>Vapor Pressure (Pa):</b>	Not measured
<b>pH:</b>	8.4-8.7	<b>Vapor Density:</b>	Heavier than air
<b>Melting/Freezing Points (°C):</b>	Not measured	<b>Solubility in Water:</b>	Not measured.
<b>Initial Boiling Point/Range (°C):</b>	No Established Limit (C) / No Established Limit (F)	<b>Partition Co-efficient n-octanol/water (Log Kow):</b>	Not measured
<b>Flash Point:</b>	>61°C / >141°F Tagged Closed Cup (TCC)	<b>Auto-Ignition Temperature (°C):</b>	Not measured
<b>Evaporation Rate (Ether=1):</b>	Not measured	<b>Decomposition Temperature:</b>	Not measured
<b>Flammability (Solid, Gas):</b>	Not applicable	<b>Viscosity (cSt):</b>	Not measured
<b>Specific Gravity @ 20°C</b>	1.10-1.03	<b>VOC %:</b>	Not measured
<b>Other Information:</b>	No other relevant information.	<b>Density, g/ml @ 25°C:</b>	Not measured

## SECTION 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	No dangerous reactions under normal handling conditions.
<b>Chemical Stability:</b>	Stable under normal handling conditions.
<b>Hazardous Reactions:</b>	Thermal decomposition in the presence of air will produce oxides of carbon and irritating or toxic fumes.
<b>Conditions To Avoid:</b>	Strong acids. Strong bases. Strong oxidizers. Extreme heat/open flame/sparks and other sources of ignition.
<b>Incompatible Materials:</b>	Strong acids. Strong bases. Strong oxidizers.
<b>Hazardous Decomposition Prod.:</b>	Thermal decomposition in the presence of air will produce oxides of carbon and irritating or toxic fumes.

## SECTION 11 TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	<b>Ingredients</b>	<b>Oral LD50 mg/kg</b>	<b>Skin LD50mg/kg</b>	<b>Inhalation Vapor/Dust/Mist LD50mg/L/4hr</b>
	2-Methylpentane-2,4-diol- (107-41-5)	>5,000 (Rat) Category NA	>5,000 (Rabbit) Category NA	No data available
<b>Category --:</b>	Item: Acute Toxicity (mouth) / Hazard: Not applicable.			
<b>Category --:</b>	Item: Acute Toxicity (skin) / Hazard: No applicable.			
<b>Category --:</b>	Item: Acute Toxicity (inhalation) / Hazard: Not applicable.			
<b>Category 2:</b>	Item: Skin Corrosion/Irritation / Hazard: Causes skin irritation.			
<b>Category 2:</b>	Item: Eye Damage/Irritation / Hazard: Causes serious eye damage.			
<b>Category --:</b>	Item: Sensitization (respiratory) / Hazard: Not applicable.			
<b>Category --:</b>	Item: Sensitization (skin) / Hazard: Not applicable.			
<b>Category --:</b>	Item: Germ Toxicity / Hazard: Not applicable.			
<b>Category --:</b>	Item: Carcinogenicity / Hazard: Not applicable.			
<b>Category --:</b>	Item: Reproductive Toxicity / Hazard: Not applicable.			
<b>Category --:</b>	Item: Specific Target Organ Systemic Toxicity (single exposure) / Hazard: Not applicable.			
<b>Category --:</b>	Item: Specific Target Organ Systemic Toxicity (repeated exposure) / Hazard: Not applicable.			
<b>Category --:</b>	Item: Aspiration Hazard / Hazard: Not applicable.			

## SECTION 12 ECOLOGICAL INFORMATION

<b>Toxicity:</b>	No additional information provided for this product. See Section 3 for chemical specific data.
<b>Aquatic Ecotoxicity:</b>	This product is not expected to be toxic to the aquatic environment.
<b>Persistence and Degradability:</b>	There is no data available on the preparation itself.
<b>Bioaccumulative Potential:</b>	Not measured.
<b>Mobility in Soil:</b>	No data available.
<b>Results of PBT and vPvB Assess:</b>	This product contains no PBT/vPvB chemicals.
<b>Other Adverse Effects:</b>	No data available.

## SECTION 13 DISPOSAL CONSIDERATIONS

<b>Waste Treatment Methods:</b>	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

<b>UN Number:</b>	UN 1993	
<b>UN Proper Shipping Name:</b>	UN 1993 Combustible Liquid, N.O.S. (contains butanol and glycol ether EB)	
<b>Transport Hazard Class(es):</b>	<b>DOT (Domestic Surface Transportation):</b> DOT Proper Shipping: NA 1993 combustible liquid, N.O.S. (contains butanol and glycol ether EB) DOT Hazard Class: 3 DOT Label: 3 UN/NA Number: NA 1993 DOT Packing Group: III CERCLA/DOT RQ: NA gal. / NA lbs.	<b>IMO/IMDG (Ocean Transportation):</b> IMDG Proper Shipping Name: NA 1993 combustible liquid, N.O.S. (contains butanol and glycol ether EB) IMDG Hazard Class: 3 Sub Class: Not applicable IMDG Packing Group: III
<b>Special Precautions For User:</b>	Not applicable	<b>IATA (Air):</b> IMDG Proper Shipping Name: NA 1993 combustible liquid, N.O.S. (contains butanol and glycol ether EB) IMDG Hazard Class: 3
<b>Transport:</b>	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable	
<b>Environmental Hazards IMDG:</b>	Marine Pollutant: No	
<b>Packing Group:</b>	III	

## SECTION 15 REGULATORY INFORMATION

<b>Regulatory Overview:</b>	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.
<b>WHMIS Classification:</b>	B3 D2B
<b>US EPA Tier II Hazards:</b>	Fire: <b>Yes</b> / Sudden Release of Pressure: <b>No</b> / Reactive: <b>No</b> / Immediate (acute): <b>Yes</b> / Delayed (chronic): <b>No</b>
<b>EPCRA 311/312:</b>	Chemicals and RQs (>0.1%): Butan-1-01 (5,000.00) / Diethanolamine (100.00)
<b>EPCRA 302:</b>	Extremely Hazardous (>0.1%): No product ingredients listed
<b>EPCRA 313:</b>	Toxic Chemicals (>0.1%): 2-butoxy-ethanol, ammonium nitrate (solution), butan-1-01, diethanolamine
<b>Proposition 65:</b>	Carcinogens (>0.0%): 1-4 dioxane, acetaldehyde, diethanolamine, oxirane
<b>Proposition 65:</b>	Developmental Toxins (>0.0%): No product ingredients listed
<b>Proposition 65:</b>	Female Repro Toxins (>0.0%): Oxirane
<b>Proposition 65:</b>	Male Repro Toxins (>0.0%): Oxirane
<b>N.J. RTK Substance (&gt;1%):</b>	2-butoxy-ethanol, ammonium nitrate (solution), butan-1-01, diethanolamine, glycerol
<b>Penn RTK Substances (&gt;1%):</b>	2-butoxy-ethanol, ammonium nitrate (solution), butan-1-01, diethanolamine, glycerol

## 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.