

SAFETY DATA SHEET



KALO

SECTION 1: IDENTIFICATION

Company Information	KALO, Inc., 13200 Metcalf Ave., Ste. 250, Overland Park, KS 66213
Phone Numbers	800-255-5196 / 913-491-9146 FAX
Website	www.kalo.com
Product Identity	NATURE'S AID GRANULAR GARDEN SOIL INOCULANT
Reference/Item Number	NA15, NA40
Intended Use	Rhizobium Inoculant. Soil humus in granular form and Rhizobium.
Application Method	See product label for specific crop information, application rates and methods. Not for food, feed or drug use.
Product Description	These are symbiotic, nitrogen-fixing bacteria, to be applied as a seed treatment or in-furrow at seed planting, to specific legume crops. Not a plant food product.
24 HOUR EMERGENCY NUMBER/CHEMTREC (USA)	1-800-424-9300
POISON CONTROL CENTER (USA)	1-800-222-1212

SECTION 2: HAZARDS IDENTIFICATION

HAZARD COMMUNICATION STANDARD (HCS) PICTOGRAM(S) AND SIGNAL WORD(S)–NOT REQUIRED

Eye Irritant:	H320: May cause eye irritation.
Skin Irritant:	H316: May cause mild skin irritation.
Prevention:	P280: Wear protective gloves and eye/face protection. P264: Wash thoroughly after handling.
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. P337+313: If eye irritation persists, get medical advice/attention. P302+352: IF ON SKIN: Wash with plenty of soap and water. P332+313: If skin irritation occurs, get medical advice/attention. P363: Wash contaminated clothing before reuse.
Storage:	P234: Store in original container. P402+235: Store in a cool, dry place. P410: Protect from sunlight.
Disposal:	P501: Dispose of contents/container in accordance with local/national regulations.

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 a trade secret.

Ingredient/Chemical Designations:	Contains naturally-occurring Rhizobacterium species.
CAS No.:	Mixture
Notes:	There are no known health effects caused by the Rhizobium bacteria contained in this product.

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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:	No treatment necessary.

[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:	Dust may cause mechanical irritation of eye.
Skin:	No known hazard.
Inhalation:	Inhalation of large amounts of dust may cause discomfort. Chronic inhalation of quartz dust causes lung disease.
Ingestion:	No known hazard.
Primary Entry Route:	Oral (swallowing).
Medical Conditions Aggravated by Exposure:	Respiratory disease.
Target Organs:	Lungs

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media:	Use media suitable for the surrounding fire.
Special Hazards:	Non known
Advice For Firefighters:	No special requirements.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Spill/Lead Procedures:	Contain spill and recover for use or disposal.
Small Spills:	Spilled liquid may cause slippery residue on hard floors. Flush spill area with water to wash away any slippery residue.

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 wash before reuse. Have eyewash accessible to use in handling area. See Section 2 for further details.
Conditions For Safe Storage:	Store in original bag in a cool, dry place. Avoid repeated freeze/thaw cycles. Shake well before use. Open package only when ready to use. Use before expiration date printed on package. See Section 2 for further details.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Data:	This product contains no ingredients (at greater than 0.1%) with established limits for exposure under OSHA, ACGIH and/or NIOSH.
Carcinogen Data:	Quartz is listed as a carcinogen by NTP and IARC. Small amounts of quartz are a naturally-occurring component of the carrier substrate.
[PERSONAL PROTECTIVE EQUIPMENT]	
Respiratory:	Wear a dust mask when working in dusty conditions.
Eyes:	Dust-proof goggles are recommended when working in dusty conditions.
Skin:	Practice general personal hygiene after using this product. After handling any biological product, wash arms, hands and face with soap and water before eating, drinking or smoking.
Engineering Controls:	Special ventilation is not required for the normal handling and use of this product when following the label instructions.
Contaminated Equipment:	Clean application equipment with detergent and water after use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark Brown Powder/Granules
Odor:	Earthy
Odor Threshold:	Not Measured
pH:	6.5-7.4
Specific Gravity:	0.6
Flashpoint and Method:	Not Measured
Solubility in Water:	Insoluble
Viscosity (cSt):	Not Measured
VOC%:	Not Measured
Vapor Pressure (Pa):	Not Measured
Vapor Density:	Not Measured
Density:	Not Measured
Melting/Freezing Points:	Not Measured
Initial Boiling Point/Range (°F/°C):	Not Measured
Flammability (Solid,Gas):	Not Measured
Upper Flammability/Explosive Limits:	Not Measured
Lower Flammability/Explosive Limits:	Not Measured
Decomposition Temperature:	Not Measured
Auto-Ignition Temperature:	Not Measured
Volatility:	Not Measured
Molecular Weight:	Not Measured
Partition Co-Efficient n-octanol/water (Log Kow):	Not Measured
Evaporation Rate (Ether=1):	Not Measured
Particle Size:	Not Measured
Other:	No other relevant information.

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SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Not chemically reactive.
Chemical Stability:	Stable under normal ambient and anticipated conditions of use.
Hazardous Reactions:	Hazardous reactions not anticipated.
Conditions To Avoid:	Sun, high temperatures and hot winds.
Incompatible Materials:	Some seed-applied chemicals, including fungicides, may be harmful to the bacteria in this product. See product label for further information on the use of fungicides or other chemicals in conjunction with seed treatment.
Hazardous Decomposition Products:	Oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

		[ACUTE TOXICITY ESTIMATE]
Ingredients:		Contains naturally-occurring Rhizobacterium species.
Oral LD50mg/kg:		>5,000.00 (rat)
Skin LD50mg/kg:		>2,000.00 (rabbit)
Inhalation Vapor LC50mg/L/4hr:		No Data Available
Inhalation Dust/Mist LC50mg/L/4hr:		No Data Available
ITEM	HAZARD	CATEGORY
Acute Toxicity (mouth):	Not Applicable	--
Acute Toxicity (skin):	Not Applicable	--
Acute Toxicity (inhalation):	Not Applicable	--
Skin Corrosion/Irritation:	May cause mild skin irritation.	--
Eye Damage/Irritation:	May cause eye irritation.	--
Sensitization (respiratory):	Not Applicable	--
Sensitization (skin):	Not a skin sensitizer.	--
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

Toxicity:	No additional information provided for this product.
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:	This product contains Rhizobacterial strain(s) that occur(s) naturally in soil.

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SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Small amounts of product which cannot be used according to label instructions may be disposed of in a landfill. This product is not regulated as a hazardous waste. State and local regulation may affect the disposal of this product. Consult your state, local or provincial environmental agency for disposal of waste other than by use according to label instructions.

SECTION 14: TRANSPORT INFORMATION

DOT Proper Shipping Name: Not Regulated

DOT Hazard Class: Not Applicable

DOT Packing Group: Not Applicable

DOT Label: None

IMDG Proper Shipping Name: Not Regulated

IMDG Hazard Class: Not Applicable

IMDG Packing Group: Not Applicable

IMDG Marine Pollutant: No

ICAO/IATA: See Bill of Lading

SECTION 15: REGULATORY INFORMATION

Regulatory Overview: The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

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.

WHMIS Classification: D2B

U.S. EPA Tier II Hazards: Fire=NO / Sudden Release of Pressure=NO / Reactive=NO / Immediate (acute)=NO / Delayed (chronic)=NO

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 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.

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 Substances (>1%): To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

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

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.