Safety Data Sheet
Prepared in accordance with JIS Z 7252:2014.
Prepared to GHS Rev 4.

Revision date: Initial version
Date of issue: 01.08.2016

Trade name: Baunty 1

1 Chemical identifier and company identification

Chemical identifier (Product name): Baunty 1

Name of supplier: Zalmanson Deshanim
Address of supplier: 11 Sharet st., Hod hasharon, Israel

Telephone number of the supplier: 972-52-5212488

Emergency telephone number: 972-52-5212488
Fax number: N/A
E-mail address: dorzalmanson@gmail.com

Recommended uses and restrictions on use:
Add recommended dosage of this fertilizer to a water container before use.
Do not eat, drink or use to any means other than those specified on the package of this product.

2 Hazards identification

Classification of the chemical in accordance with the latest edition of JIS Z 7252:
GHS classification:
Skin irritation (Category 2), H315
Serious eye damage (Category 1), H318.

GHS label elements:
Hazard symbol(s):

Signal word: DANGER

Hazard statement(s):
H315 – Causes skin irritation
H318 – Causes serious eye damage

Precautionary statement(s):
P264 - Wash skin thoroughly after handling
P280 - Wear protective gloves/ protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.

P305+P351+P338 - Rinse cautiously 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.
P321 - Specific treatment (see section 4 to 8 of this SDS and any additional information on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention**.**
P362 - Take off contaminated clothing and wash it before reuse.

Other hazards: None known

Important symptoms and an outline of an anticipated emergency:
No symptoms expected. If any symptoms are observed, contact a physician and give them this SDS sheet.

3 Composition/information on ingredients

Mixture:

Chemical name	CAS number	Concentration
Potassium nitrate	7757-79-1	5-15%
Calcium nitrate	10124-37-5	1-10%
Magnesium nitrate	10377-60-3	1-10%
Phosphoric acid	7664-38-2	1-3%
Iron EDTA	17099-81-9	>1%
Manganese EDTA	15375-84-5	0.1-0.5%
Molybdenum EDTA	n/a	<0.1%
Copper EDTA	14025-15-1	<0.1%

4 First-aid Measures

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Skin contact: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention. In case of serious skin contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Anticipated acute delayed effects and most important symptoms/effects:
None known.

5 Fire-fighting measures

Extinguishing media:

Suitable extinguishing media: If product is involved in fire: Water, water spray, dry extinguishing media. When decomposing product is handled: water.

Unsuitable extinguishing media: If product is involved in fire: None known. When decomposing product is handled: foam, dry extinguishing media, carbon dioxide (CO2), powder, sand.

Specific hazards: Hazardous combustion products: Oxides, ammonia.

Specific extinguishing methods: Collect contaminated extinguishing water separately; do not allow to reach sewerage or effluent systems. Fire debris must be deposed of in accordance with local regulations.

Protection of fire-fighters: Wear a self-contained breathing apparatus.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:
For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering.
For emergency responders: Use appropriate tools and protective equipment. Evacuate any non-emergency personnel away from the area.

Environmental precautions:
None known.

Methods and materials for containment and methods and materials for cleaning up:

Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7 Handling and storage precautions

Handling:

Technical measures:	The product is incombustible. It can lower the ignition temperature of combustible substance.
Safety handling precautions:	None known.
Prevention of contact:	Protect from contamination. Protect from fire and explosion.
Sanitary measures:	None known.

Storage:

Safe storage conditions:	Keep away from heat. Keep away from sources of ignition – no smoking. Protect from direct sunlight. Keep away from combustible material. Protect against contamination. Protect against moisture; (the product is hygroscopic, tends to cake). When store loose do not mix with other fertilizers.
Safe packaging material:	Store in plastic containers or stainless steel, the storage time is limited to 3 months only.

8. Exposure controls and personal protection

Occupational Exposure limit values and biological limit values:

Chemical Name	Japan Recommended Exposure Limits - TWAs	Japan - Recommended Exposure Limits - Ceiling Limits	Japan - Recommended Exposure Limits - Biological Monitoring
Potassium nitrate	None available	None available	None available

Calcium nitrate	None available	None available	None available
Magnesium nitrate	None available	None available	None available
Phosphoric acid	1 mg/m3 OEL	None available	None available
Iron EDTA	1 mg/m3 as Fe	None available	None available
Manganese EDTA	0.5 mg/m3 as Mn	None available	None available
Molybdenum EDTA	As Mo Soluble compounds – 5 mg/m3 Insoluble compounds – 10 mg/m3	None available	None available
Copper EDTA	fume – 0.2 mg/m3 dusts and mists (as Cu) – 1 mg/m3	None available	None available

Engineering controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment:

Respiratory protection: Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Hand protection: Gloves.

Eye protection: Splash goggles.

Skin and body protection: Lab coat.

9 Physical and chemical properties

Appearance (e.g. physical state, form and colour) of a chemical; Liquid; yellow to greenish colour

Odour Faint specific odor

Odour threshold value; No data available

pH; 3-3.5

Melting point/freezing point; No data available

Boiling point, initial boiling point and boiling range: Not applicable

Flashpoint: Not applicable

Evaporation rate: No data available

Flammability (solid, gas): Not applicable

Upper/lower flammability or explosive limits: Not applicable

Vapour pressure: No data available

Vapour density: No data available

Specific gravity (relative density): 1.2-1.22 (20 °C)

Solubility(ies): 100% soluble in water

n-octanol/water partition coefficient: log Pow <1

Auto-ignition temperature: Not applicable

Decomposition temperature: >350 °C

Viscosity (coefficient of viscosity): No data available

Other data:

10 Stability and Reactivity

Reactivity: This product is not expected to be reactive under normal handling and storage conditions.

Chemical stability: The product is stable under normal handling and storage conditions.

Hazardous reactions: Risk of explosion if heated under confinement.

Conditions to avoid: To avoid thermal decomposition, do not overheat.

Incompatible materials: Dangerous reaction with acid and alkaline substances.

Hazardous decomposition Products: Nitrous gases (nitrogen oxides), ammonia. Ammonia in contact with alkaline solutions.

11 Hazard information

Acute Toxicity:

Chemical Name	Test Type	Species	Value

Potassium nitrate	LD_{50} Oral LD_{50} Dermal LC_{50}, Inhalation	Rat - -	3750 mg/kg - -
Calcium nitrate	LD_{50} Oral LD_{50} Dermal LC_{50}, Inhalation	Rat - -	> 300 - < 2,000 mg/kg - -
Magnesium nitrate	LD_{50} Oral LD_{50} Interperitoneal LC_{50}, Inhalation	- Mouse -	- 410 mg/kg -
Phosphoric acid	LD_{50} Oral LD_{50} Dermal LC_{50}, Inhalation	Rat Rat Rat	- - -
Iron EDTA	LD_{50} Oral LD_{50} Dermal LC_{50}, Inhalation	Rat Rat Rat	> 1000 mg/kg No data available No data available
Manganese EDTA	LD_{50} Oral LD_{50} Dermal LC_{50}, Inhalation	Rat Rat Rat	No data available No data available No data available
Molybdenum EDTA	LD_{50} Oral LD_{50} Dermal LC_{50}, Inhalation	Rat Rat Rat	No data available No data available No data available
Copper EDTA	LD_{50} Oral LD_{50} Dermal LC_{50}, Inhalation	Rat Rat Rat	> 1740 mg/kg No data available No data available

Skin irritation/corrosion: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye damage/eye irritation.

Respiratory or skin sensitization: Causes respiratory irritation (lung irritant).

Reproductive cell mutagenicity: Not expected to cause cell mutagenicity.

Carcinogenicity: Not expected to be carcinogenic.

Reproductive toxicity: Not expected to cause reproductive toxicity.

Specific target organ toxicity-single exposure: Not expected to cause specific target organ toxicity after a single exposure.

Specific target organ toxicity-repeated exposure: Not expected to cause specific target organ toxicity after repeated exposure.

Aspiration hazard: Not expected to cause an aspiration hazard.

12 Ecological information

Ecotoxicity:

Product data:

Ingredient Information:

Potassium nitrate	Fish - LC50 - Gambusia affinis (Mosquito fish) - 22.5 mg/l - 96 h Fish - static test LC50 - Poecilia reticulata (guppy) - 1,378 mg/l - 96 h Daphnia - EC50 - Daphnia magna (Water flea) - 226 mg/l - 72 h
Calcium nitrate	Fish - LC50 - Oncorhynchus mykiss (rainbow trout) - > 98.9 mg/l - 96 h
Magnesium nitrate	No data available
Phosphoric acid	No data available
Iron EDTA	No data available
Manganese EDTA	No data available
Molybdenum EDTA	No data available
Copper EDTA	Fish - 96h-LC50: > 100 mg/l Daphnia - 24h-EC50: >500 mg/l

Persistence and degradability: Inorganic product which cannot be eliminated from water by biological purification processes.

Bioaccumulative potential: No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow <1).

Mobility in soil: No data available.

Hazardous to the ozone layer: No data available.

13 Notes on disposal

Waste from residues: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Contaminated container and packaging: Contaminated packaging may contain traces of the product and therefore should be disposed of in the same way as product.

14 Transport Information

International regulations:

- **UN number:** Not regulated
- **Name of product (UN proper shipping name):** Not applicable
- **UN classification [Transport hazard class(es)]:** Not applicable
- **Packing group (if applicable):** Not applicable
- **Marine pollutant (Y/N):** No
- **Liquid substances transported in bulk according to MARPOL 73/78, Annex II, the IBC Code (Y/N):** No
- **Special precautions:** None known
- **National regulations:** None known

15 Regulatory Information

Japan – Industrial Safety and Health Law:

Chemical Name	CAS Number	ISHL Notifiable Substance List
Potassium nitrate	7757-79-1	Not listed
Calcium nitrate	10124-37-5	Not listed
Magnesium nitrate	10377-60-3	Not listed
Phosphoric acid	7664-38-2	Not listed
Iron EDTA	17099-81-9	Not listed
Manganese EDTA	15375-84-5	Not listed
Molybdenum EDTA	n/a	Not listed
Copper EDTA	14025-15-1	Not listed

Japan – Pollutant Release and Transfer Registry (PRTR) Law:

Chemical Name	CAS Number	PRTR Class 1 substances	PRTR Class 2 substances
Potassium nitrate	7757-79-1	Not listed	Not listed
Calcium nitrate	10124-37-5	Not listed	Not listed
Magnesium nitrate	10377-60-3	Not listed	Not listed
Phosphoric acid	7664-38-2	Not listed	Not listed
Iron EDTA	17099-81-9	Not listed	Not listed
Manganese EDTA	15375-84-5	Not listed	Not listed
Molybdenum EDTA	n/a	Not listed	Not listed
Copper EDTA	14025-15-1	Not listed	Not listed

Japan – Poisonous and Deleterious Substances Control Law:

Chemical Name	CAS Number	Poisonous and Deleterious Substances	Specified Poisonous Substances
Potassium nitrate	7757-79-1	Not listed	Not listed
Calcium nitrate	10124-37-5	Not listed	Not listed
Magnesium nitrate	10377-60-3	Not listed	Not listed
Phosphoric acid	7664-38-2	Not listed	Not listed
Iron EDTA	17099-81-9	Not listed	Not listed
Manganese EDTA	15375-84-5	Not listed	Not listed
Molybdenum EDTA	n/a	Not listed	Not listed
Copper EDTA	14025-15-1	Not listed	Not listed

16 Other Information

Revision Date: Aug 1 2016

Bibliography:

Further Information:

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