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Safety Data Sheet

Dr. Joe Growing Bubble Dr. Joe Blooming Flower Bubble Dr. Joe Tomato & Vegetable Bubble

Distributed by:

Nousbo USA, Inc.
2100 West Loop South, Suite 625
Houston, Texas 77027
1-800-847-7470

Manufactured by:

Nousbo Co., Ltd.
#5-102, 89 Seoho-ro Gwonseon-gu, Suwon-si, Gyeonggi-do, South Korea, 16614

Poison Control: 1-800-222-1222

Emergency: 911

Section 1 Identification

Name: Growing Bubble, Blooming Flower Bubble, Tomato & Vegetable Bubble

Other Names: Growing Bubble, Blooming Flower Bubble, Tomato & Vegetable Bubble

Product Type: Fertilizer/Plant Food

SDS #: 110623

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Use only in accordance with label directions.

Section 2 Hazards Identification

OSHA/HCS status:

This product is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the Substance or Mixture:

ACUTE TOXICITY (ORAL) - Category 4

SKIN CORROSION/IRRITATION - Category 2

EYE DAMAGE/IRRITATION - Category 2A

SPECIFIC TARGET ORGAN TOXICITY (*SINGLE EXPOSURE*) - Category 3

GHS Label Elements:**Hazard Pictogram(s):****Signal Word:** WARNING**Hazard Statements:**

- H302 – Harmful if swallowed
- H315 – Causes skin irritation
- H319 – Causes serious eye irritation
- H335 – May cause respiratory irritation

Precautionary Statements:**General:**

Keep out of reach of children

Prevention:

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves
- P264+P265 Wash hands thoroughly after handling. Do not touch eyes.

Response:

- P319 Get medical help if you feel unwell.
- P330 Rinse mouth.
- P301+P317 IF SWALLOWED: Get medical help.
- P302+P352 IF ON SKIN: wash with plenty of water
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
- P332+P317 If skin irritation occurs: Get medical help.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P405 Store locked up.

Storage:

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents/container in accordance with local/regional/national regulations.
- P337+P317 If eye irritation persists: Get medical help.

Disposal:

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

Supplemental Label Elements: Not available

Hazards Not Otherwise Classified: Not available

Section 3 Composition/Information on Ingredients

Substance/Mixture: Mixture

Ingredient Name	CAS Number	%
Potassium Carbonate	584-08-7	10~20

*Any concentration shown as a range is to protect confidentiality or is due to the product variation.

Section 4 First Aid Measures**Description of Necessary First Aid Measures****Eye Contact:**

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention

Inhalation:

Fresh air, rest

Skin Contact:

Remove contaminated clothes. Rinse skin with plenty of water or shower

Ingestion:

Rinse mouth. Do NOT induce vomiting. Give one or two glasses of water to drink. Refer for medical attention

Potential Acute Health Effects

Eye Contact: Redness. Pain.

Inhalation: Cough. Shortness of breath. Sore throat.

Skin Contact: Redness. Pain.

Ingestion: Burning sensation in the throat and chest.

Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary

Specific Treatments: Not available

Protection of First-Aiders:

Provide proper respiratory protection to rescuers entering an unknown atmosphere. Whenever possible, Self-Contained Breathing Apparatus (SCBA) should be used; if not available, use a level of protection greater than or equal to that advised under Protective Clothing.

Section 5 Fire-Fighting Measures

Extinguishing Media:

Suitable Extinguishing Media:

Use extinguishing medium as appropriate for surrounding fire

Hazardous Thermal Decomposition Products:

Oxides of carbon, potassium oxides

Special Protective Actions for Fire-Fighters:

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Section 6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel:

Avoid contact with skin and eyes. Avoid breathing dust. Avoid dust formation. Wash thoroughly after handling.

For Emergency Responders:

Provide proper respiratory protection to rescuers entering an unknown atmosphere.

Environmental Precautions:

Do not let product enter drains.

Methods and Materials for Containment and Cleaning Up

Small Spills and Leakage:

Shovel dry material into suitable container. Flush spill area with water, if appropriate.

Section 7 Handling and Storage

Precautions for Safe Handling

Protective Measures: Put on appropriate personal protective equipment (see Section 8).

Advice on General Occupational Hygiene:

Do not eat, drink or smoke during work. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday (also see Section 8).

Conditions for Safe Storage, Including any Incompatibilities:

Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled.

Section 8 Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name	Exposure Limits
Trade secret	TLV (inhalable fraction): 2 mg/m ³ ; peak limitation category: I(2); pregnancy risk group: C

Exposure Prevention: Prevent dispersion of dust.

Appropriate Engineering Controls:

Closed system, ventilation, explosion-proof electrical equipment and lighting. Prevent deposition of dust. Local exhaust ventilation should be applied wherever there is an incidence of point source emissions or dispersion of regulated contaminants in the work area. Ventilation control of the contaminant as close to its point of generation is both the most economical and safest method to minimize personnel exposure to airborne contaminants. Ensure that the local ventilation moves the contaminant away from the worker.

Individual Protection Measures

Hygiene Measures:

Do not eat, drink, or smoke during work. Wash hands before breaks and at the end of workday.

Eye/Face Protection: Safety glasses/goggles/face shield.

Hand Protection: Handle with protective gloves.

Body Protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection: Ventilation. Dust mask.

Section 9 Physical and Chemical Properties

Appearance

Physical State: Solid (tablet)
Color: green/pink
Odor: Odorless
Odor Threshold: Not applicable
pH: Not available for mixture
Melting Point: Not available for mixture
Boiling Point: Not available for mixture
Flash Point: Not available for mixture
Evaporation Rate: Not available for mixture
Flammability (Solid, Gas): Not available for mixture
Lower/Upper Explosive/Flammable Limits: Not available for mixture
Vapor Pressure: Not available for mixture
Vapor Density: Not available for mixture
Density: Not available for mixture
Solubility: Soluble in water
Partition Coefficient: n-octanol/water: Not available for mixture
Auto-Ignition Temperature: Not available for mixture
Decomposition Temperature: Not available for mixture
Viscosity: Not available for mixture

Section 10 Stability and Reactivity

Reactivity: Not reactive under normal temperatures and pressures

Chemical Stability: The product is stable in normal storage, handling and usage conditions.

Possibility of Hazardous Reactions: Avoid contact with lime to prevent formation of corrosive potassium hydroxide.

Conditions to Avoid: Avoid contact with incompatible materials. High humidity and improper storage can cause product to swell.

Incompatible Materials: KCO; chlorine trifluoride; magnesium.

Hazardous Decomposition Products: Carbon oxides, Potassium oxides

Section 11 Toxicological Information

Information on Toxicological Effects

Acute Toxicity Estimate:

Ingredient	Route	Species	Dose	Effect
Potassium Carbonate	Inhalation	Rat	LC >500 mg/m3	
Potassium Carbonate	Oral	Rat	LD50 1,870 mg/kg	

Toxicological results are from the individual ingredients and are provided as reference.

Conclusion/Summary: Harmful if swallowed.

Irritation/Corrosion

Conclusion/Summary: Causes skin redness/irritation.

Sensitization

Conclusion/Summary: Not available

Mutagenicity

Ingredient	Route	Species	Dose	Effect
Potassium Carbonate	Oral	Rat	504 gm/kg/4W-continuous	

Toxicological results are from the individual ingredients and are provided as reference.

Conclusion/Summary: Not available

Carcinogenicity

Conclusion/Summary: Not available

Reproductive Toxicity

Conclusion/Summary: Not available

Teratogenicity

Conclusion/Summary: Not available

Specific Target Organ Toxicity (Single Exposure)

Conclusion/Summary: May cause respiratory irritation

Specific Target Organ Toxicity (Repeated Exposure)

Conclusion/Summary: Not available

Aspiration Hazard**Conclusion/Summary:** Not available**Information on the Likely Routes of Exposure:**

Inhalation of dust, ingestion of tablet or solution, contact with skin

Potential Chronic Health Effects**Conclusion/Summary:** Not available**General:** Not available**Carcinogenicity:** Not available**Mutagenicity:** Not available**Teratogenicity:** Not available**Developmental Effects:** Not available**Fertility Effects:** Not available**Section 12 Ecological Information****Toxicity****Conclusion/Summary:** Not available**Persistence and Degradability****Conclusion/Summary:** Not available**Mobility in Soil****Soil/Water Partition Coefficient (KOC):** Not available**Other Adverse Effects:** Not available**Section 13 Disposal Considerations****Disposal Methods:**

Reuse or reprocess, if possible. May be subject to disposal regulations. Measure the pH of solutions to determine disposal restrictions. Dispose in accordance with all applicable regulations.

Section 14 Transport Information**LAND TRANSPORT U.S. DOT 49 CFR 172.101:** Status: Not Regulated**CANADIAN TRANSPORTATION OF DANGEROUS GOODS:** Status: Not Regulated**MARITIME TRANSPORT (IMO / IMDG):** Not regulated**Section 15 Regulatory Information****Precautionary Statements****Signal Word:** warning

Emergency Overview:

Keep out of reach of children. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

US Federal Regulations: **OSHA/HCS:** This product is hazardous.

State Regulations

California Prop 65: Not listed.

NFPA Rating:

Health Hazard: 2

Fire Hazard: 0

Reactivity Hazard: 0

Section 16 Other Information

IMPORTANT:

The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESSED OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and Nousbo USA Inc. assumes no liability whatsoever for the use of or reliance upon this information.