Justice Products

GREEN JELLYBEAN GLASS

MATERIAL SAFETY DATA SHEET

1. Contact Information

Customer Service

JUSTICE PRODUCTS, LLC
P.O. BOX 2800
YULEE, FL 32041

PHONE: (904) 261-2250
FAX: (904) 261-2253

Manufactured At

JUSTICE PRODUCTS, LLC
2435 OLD 421 RD.
STALEY, NC 27355

PLANT MANAGER: Mike Andrews
EMERGENCY PHONE: (800) 272-1895

2. Product Identification

Trade Name
GREEN JELLYBEAN GLASS

Common Name(s)
Glass Beads

Chemical Name/Class	glass oxide
CAS Number	65997-17-3
Physical Description	green oblong glass beads
Particle Size	1.00 – 8.00 mm
Product Use	various

These products are sold to consumers for decorative use, as well as for use in other specialized applications. This MSDS has been developed to address safety concerns affecting those individuals working in warehouses and other places where large numbers of these containers are stored, as well as those affecting potential users of this product in industrial/occupational or manufacturing settings.

3. Composition & Information on Ingredients

Ingredient	CAS No.	EINECS #	% (w/w)	Other
Glass; glass oxide	65997-17-3	266-046-0	99.99%	NE
Trace amounts of components to color the beads. All hazardous ingredients are listed per the requirements of regulations pertinent to MSDS preparation (i.e. more than 1% in concentration, or more than 0.1% in concentration for carcinogens).			Balance	NE

4. Hazards Identification & Cautions

Emergency Overview

Physical Description	oblong beads (1.00 – 8.00 mm)
Health Hazards	No significant health hazards are anticipated under typical circumstances of use or release response. Loose beads can present a slip hazard if stepped upon. Broken beads can present a mechanical hazard.
Fire Hazards	No known fire hazard
Physical Hazards	Negligible under typical circumstances of use or under anticipated emergency response situations.
Environmental Hazards	No significant hazards to animal, plant or aquatic life.

Globally Harmonized System Review

Classification Not applicable; presents no significant chemical hazards upon anticipated conditions of use.

Labeling

Symbol	not applicable
Signal Word	not applicable
Hazard Statement	not applicable
Precautionary Statements	not applicable

5. First Aid Measures

Eyes	If particulates of broken glass enter the eye, cover the eye with the bandage and seek medical attention immediately.
Skin	If glass dust or particulates get on the skin, flush area with warm, running water. Continue rinsing with water for at least 15 minutes, if any evidence of redness or irritation occurs. If glass splinters enter skin, remove the splinter and cover area with antibiotic; if necessary, seek medical attention.
Inhalation	In the event that glass dust is inhaled, obtain fresh air. If necessary, blow nose.
Ingestion	If glass dust or particulates are ingested, drink copious amounts of water. Contact professional medical personnel or the local poison control center immediately.

Recommendations to Physicians

Treat symptoms and eliminate overexposure.

Medical Conditions Aggravated by Overexposure

None known.

6. Fire-Fighting Measures

NFPA Flammability Classification	not flammable
Recommended Fire Extinguishing Media	water spray, water jet, dry powder, foam, carbon dioxide, halon or any other
Unsuitable Fire Extinguishing Media	none known
Unusual Hazards in Fire Situations	loose beads create slip hazards for firefighters
Explosion Sensitivity to Mechanical Impact	not sensitive
Explosion Sensitivity to Static Discharge	not sensitive

NFPA 704M Hazard Classification

Recommendations to Firefighters

Wear self-contained breathing apparatus and full protective equipment for fire response.

7. Accidental Release Measures

Response to Incidental Releases	Intact beads can be picked up by hand. Broken beads should be swept-up. If needed, wear gloves while picking up broken beads. If breakage has created dusts, wear safety glasses.
Response to Non-Incidental Releases	Not anticipated to occur, due to the nature of the product.
Environmental Precautions	No special precautions needed.
Response Procedures for Any Release	Exercise caution around loose beads, which present a slip hazard. Broken beads have sharp edges and can cause cuts; procedures must adequately address the mechanical hazards.
Spill Response Equipment	broom / dustpan

8. Handling & Storage

Hygiene Practices	Keep out of reach of children (choking hazard). Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of dusts generated from broken beads. Clean up any spilled product immediately.
Handling Recommendations	No special precautions needed related to the chemical hazards. However, because of the weight of the individual bags, exercise all precautions necessary to avoid back injury (e.g., proper lifting techniques; use of carts, etc).
Storage Recommendations	Ensure all containers are correctly labeled. Store this product away from incompatible chemicals (See Section 11, Stability & Reactivity).

Protective Practices During Maintenance of Contaminated Equipment

Follow practices indicated in Section 7 (Accidental Release Measures).

9. Exposure Control / Personal Protection

U.S. NATIONAL EXPOSURE LIMITS

COMPONENT	ACGIH TLV	OSHA PEL (ppm)	NIOSH REL (ppm)	OTHER
Glass; glass oxide	NE	NE	NE	NE
NOTE: In the event that glass dusts are generated, use these values for **nuisance dust**.	15 mg/m^3 Respirable Fraction 5mg/m^3	10 mg/m^3 Respirable Fraction 5 mg/m^3	NE	NE

INTERNATIONAL EXPOSURE LIMITS

COMPONENT	United Kingdom Compliance Note EH 40 **EXPOSURE LIMIT**	Federal Republic of Germany (DFG) **MAX CONC. VALUES IN WORKPLACE (MAKs)**	OTHER
Glass; glass oxide	NE	NE	NE
NOTE: In the event that glass dusts are generated, use these values for **nuisance dust**.	10 mg/m^3 Respirable Fraction 5mg/m^3	4 mg/m^3 Respirable Fraction 1.5 mg/m^3	NE

Engineering Controls	None needed under routine circumstances of use.
Respiratory Protection	None needed under routine circumstances of use.
Hand Protection	Rubber or gloves should be used when broken glass is potentially handled.
Eye Protection	Safety glasses are recommended when cleaning up broken beads, if dusts are present.
Body Protection	None needed under typical situations of use or handling.

10. Physical & Chemical Properties

Physical State	solid	**Lower Explosive Limit** (LEL)	not applicable
Color	green	**Upper Explosive Limit** (UEL)	not applicable
Odor	none	**Autoignition Temperature**	not applicable
pH	not applicable	**Vapor Pressure**	not applicable
Boiling Point	not applicable	**Vapor Density** (air = 1)	not applicable
Melting Point	680°C (1,256°F)	**Specific Gravity** (water = 1)	2.4 – 2.6
Refractive Index	not applicable	**Evaporation Rate** (water = 1)	not applicable
Viscosity	not applicable	**Coefficient Oil/Water Distribution (Partition Coefficient)** not applicable	
Flash Point	not applicable		

11. Stability & Reactivity

Relative Stability	normally stable – at standard temperatures and pressured
Incompatibilities	hydrofluoric acid
Hazardous Polymerization	will not occur
Hazardous Chemical Decomposition Products	not applicable
Conditions to Avoid	avoid contact with incompatible chemicals

12. Toxicology Information

Carcinogenicity Status

The following table summarizes the carcinogenicity listing for the components of this product. "NO" indicates that the substance is not considered to be, or suspected to be, a carcinogen by the listed agency.

Chemical	IARC	NTP	NIOSH	OSHA	Other
Glass; glass oxide	NO	NO	NO	NO	NO

Reproductive Toxicity Information	This product is not known to cause any adverse effect on the human reproductive system.
Toxicology Data	No data are available for components of this product present in greater than 1 percent concentration in this product.
Toxicologically Synergistic Products	none known
Degree of Irritation	mild (glass dusts)
Sensitization Potential	not applicable

13. Ecological Information

Toxicity to Terrestrial Life	Based on available data, this product is not anticipated to be harmful to contaminated plants or animals. Prudent practice would be to minimize all releases to the environment.
Toxicity to Aquatic Life	Based on available data, this product is not anticipated to be harmful to contaminated aquatic plants or animals.
Mobility, Persistence & Degradability	This product is persistent in the environment and not readily degradable. Good hygiene practices should be implemented to prevent all accidental releases to environment.
Bioaccumulation & Bioconcentration Potential	It is not anticipated that this product will bioaccumulate or bioconcentrate significantly in the environment.
DFG WGK (Water Hazard Class)	Class 1 – Low Hazard to Waters

14. Disposal Considerations

Waste Handling Recommendations

Prepare, transport, treat, store, and dispose of waste product according to all applicable local, U.S. State and U.S. Federal regulations, the applicable Canadian standards, or the appropriate standards of the nations of the European Community.

EPA RCRA Waste Code	not applicable
European Waste Code	not applicable

15. Transport Information

Department of Transportation hazardous Materials Shipping Regulations

Proper Shipping Name	not hazardous, per US DOT regulations
Hazard Classification	not applicable
UN.NA Identification Number	not applicable
Packing Group	not applicable
Label	not applicable

North American Emergency Response Guidebook (2008)

not applicable

Marine Pollutant Status

No component is designated a DOT Marine Pollutant.

Canadian Transportation Information

This product is NOT regulated by Transport Canada as dangerous goods under Canadian transportation standards.

16. Regulatory Information

OTHER IMPORTANT U.S. REGULATIONS

CERCLA Reporting Requirements not applicable

SARA Reporting Requirements The following reporting requirements are applicable to the components of this product:

Chemical	Section 302	Section 304	Section 313
Glass; glass oxide	**NO** (40 CFR 355 Appendix A)	**NO** (40 CFR Table 302.4)	**NO** (40 CFR 372.65)

SARA Section 311/312 not applicable

California Safe Drinking Water Act (Prop. 65) Status

No component of this product is known to the State of California to cause cancer or other reproductive harm.

Toxic Substances Control Act (TSCA)

All components of this product are listed on the TSCA Inventory.

INTERNATIONAL REGULATIONS

Canadian DSL/NDSL Inventory Status

The listed components of this product are on the DSL/NDSL Inventory.

Canadian Environmental Protection Act (CEPA) Priorities Substances List

The components of this product are not on the CEPA Priorities Substances Lists.

Canadian WHMIS Classification not applicable

17. Definition of Terms & Abbreviations

ALL SECTIONS

- **OSHA** – U.S. Federal Occupational Safety and Health Administration
- **WHMIS** – Canadian Workplace Hazardous Materials Standard
- **GHS** – Globally Harmonized System of Classification of Chemical Substances

SECTION 3

- **CAS Number** – "Chemical Abstract Service Number", which is used by the American chemical Society to uniquely identify a chemical.
- **EINECS** – European Inventory of Existing Commercial Substances

SECTION 4

- **Hazardous Materials Identification System Rating** – this is a rating system used by industry to summarize physical and health hazards to chemical users and was originally developed by the National Paint and Coating Association. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.

SECTION 6

- **NFPA** – National Fire Protection Association
- **NFPA Flammability Classification** – NFPA uses the flash point (Fl.P.) and boiling point (BP) to classify flammable or combustible liquids:
  - **Class IA Fl.P.** below 73°F and BP below 100°F
  - **Class IB Fl.P.** below 73°F and BP at or above 100°F
  - **Class IC Fl.P.** at or above 73°F and BP at or above 100°F
  - **Class II Fl.P.** at or above 100°F and below 140°F.
  - **Class IIIA Fl.P.** at or above 140°F and below 200°F.
  - **Class IIIB Fl.P.** at or above 200°F.
- **NFPA Hazardous Materials Rating** – this is a rating system used to summarize physical and health hazards to firefighters. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.

SECTION 9

- **NE** - Not established.
- **ACGIH** – American Conference of Government Industrial Hygienists
- **TWA** – Time-Weighted Average (over an 8-hour work day)
- **STEL** – Short-Term Exposure Limit (15 minute average, no more than 4-times daily and each exposure separated by one-hour minimally)
- **C** – Ceiling Limit (concentration not to be exceeded in a work environment).
- **PEL** – Permissible Exposure Limit
- **NIOSH** – National Institute of Occupational Safety & Health
- **REL** – Recommended Exposure Limit
- **IDLH** – Immediately Dangerous to Life and Health Concentrations. *Note:* In July 1992, a court ruling vacated the more protective PELs set by OSHA in 1989. Because OSHA may enforce the more protective levels under the "general duty clause", both the current and vacated levels are presented in this document.
- **ppm** – parts per million mg/m^3 milligrams per cubic meter
- **mppcf** – millions of particles per cubic foot
- **BEI** – Biological Exposure Limit
- **EL** – Exposure Limit (United Kingdom). Federal Republic of Germany (DFG) Maximum Concentration Values in the Workplace (MAKs)

SECTION 10

- **pH** – scale (0 to 14) used to rate the acidity or alkalinity of aqueous solutions. For example, a pH value of 0 indicates a strongly acidic solution, pH of 7 indicates a neutral solution, and a pH value of 14 indicates an extremely basic solution.
- **Flash Point** – temperature at which a liquid generates enough flammable vapors so that ignition may occur.
- **Autoignition Temperature** – temperature at which spontaneous ignition occurs.
- **Lower Explosive Limit (LEL)** – the minimal concentration of flammable vapors in air which will sustain ignition.
- **Upper Explosive Limit (UEL)** – the maximum concentration of flammable vapors in air which will sustain ignition.≈: Approximately symbol.

SECTION 12

- **Carcinogenicity Status**
  - NTP – National Toxicology Program.
  - IARC – International Agency for Research on Cancer.
- **Reproductive Toxicity Information**
  - Mutagen – substance capable of causing chromosomal damage to cells.
  - Embryotoxin – substance capable of damaging the developing embryo in an overexposed female.
  - Teratogen – substance capable of damaging the developing fetus in an overexposed female.
  - Reproductive Toxin – substance capable of adversely affecting male or female reproductive organs or functions.
- **Toxicology Data**
  - OECD – Organization for Economic Co-operation and Development (OECD).
  - LDxx or LCxx – the Lethal Dose or Lethal Concentration of a substance which will be fatal to a given percentage (xx) of exposed test animals by the designate route of administration. This value is used to access the toxicity of chemical substances to humans.
  - TDxx or TCxx – the Toxic Dose or Toxic Concentration of a substance which will cause an adverse effect to a given percentage (xx) of exposed test animals by the designate route of administration.

SECTION 14

- **RCRA** – Resource Conservation and Recovery Act. The regulations promulgated under this act under Act are found in 40 CFR, Sections 260 ff, and define the requirements of hazardous waste generation, transport, treatment, storage, and disposal.
- **EPA RCRA Waste Codes** – defined in 40 CFR Section 261.

SECTION 16

- **CERCLA** – Comprehensive Environmental Response Compensation and Liability Act (a.k.a. "Superfund")
- **SARA** – Superfund Amendment and Reauthorization Act. The regulations promulgated under this Act are located under 40 CFR 300 ff. and provide "community right-to-know" requirements.
- **DSL/NDSL** – Canadian Domestic Substances and Non-Domestic Substances Lists.

18. Other Information

This Material Safety Data Sheet (MSDS) complies with the requirements of the American National Standards Institute (Z400.1, 1998), U.S. Federal Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200), and equivalent state Standards. It has also been developed in accordance with the Canadian Workplace Hazardous Materials Standard and the United Nations Globally Harmonized System of Classification of Chemicals. Refer to Section 17 of this document for the definition of terms and abbreviations.

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JUSTICE PRODUCTS, LLC
P.O. Box 2800
Yulee, FL 32041

Plant Manager: Mike Andrews
Emergency Phone: (800) 272-1895

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