



Ferris[®] Beads 2194 Imperial Blue

Section 1 Chemical Product and Company Identification

1.1 Product identifiers

Product name: Ferris[®] Beads 2194 Imperial Blue

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Jewelry Injection Wax

1.3 Details of the supplier of the safety data sheet Freeman Manufacturing & Supply Company 1101 Moore Road, Avon, OH 44011 Telephone (440) 934-1902 www.freemansupply.com

1.4 Emergency telephone number CHEMTREC (800) 424-9300

Section 2 Hazards Identification

2.1 Classification of the substance or mixture

Not classified according to OSHA 29 CFR 1910.1200 HCS

- 2.2 GHS Label elements, including precautionary statements No label element(s) required
- **2.3 Hazards not otherwise classified** Molten product can cause serious burns.

Section 3 Composition/Information on Ingredients

3.1 Mixture of Substances

Proprietary mixture of synthetic and natural waxes, resin(s), additive(s), and oil soluble dye(s). No components need to be disclosed according to the applicable regulations.

Section 4 First Aid Measures

4.1 Description of first aid measures

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| Inhalation | Get medical assistance if irritation develops or persists. If breathing is difficult, |
| | move the person to fresh air. Give artificial respiration if person is not breathing. |
| Skin contact | For thermal burns, flush or submerge effected area in cold water to dissipate heat. |
| | Cover with clean bandage material. Do not peel material from skin. Get medical attention. |
| | For contact at ambient temperatures, wash with soap and water. |
| Eye contact | Immediately flush with plenty of water for at least 15 minutes. |
| - | If irritation persists, get medical attention immediately, preferably an ophthalmologist. |
| Ingestion | If swallowed, rinse mouth with water. Never give anything by mouth to an unconscious person. |
| C | Do NOT induce vomiting. Consult a physician if necessary. |
| | |

Section 5 Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Water fog, dry chemical, foam, carbon dioxide.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. See Section 10 for possible products of hazardous combustion.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

| | Section 6 Accidental Release Measu | ires | |
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| 6.2 Environmental precautions Should not be released into the er 6.3 Methods and materials for container Do not walk through spilled mate | Wear appropriate personal protective nvironment. Prevent product from ente | equipment, see Section 8 ering drains. | |
| ·····0· ·· | Section 7 Handling and Storage | | |
| with soap and water after handlin dust formation. Avoid contact wit Specific end use(s): Avoid heatin dewax operations). Do not let mo 7.2 Conditions for safe storage, includin Store at ambient temperatures. K | ng above 100°C (212°F) during the norn lten product stand in melt tanks and in | te ventilation. Avoid brea mal investment casting p jection machines, stir pro e. Keep away from ignitio | thing fumes. Avoid rocess (except oduct continuously. |
| Secti | ion 8 Exposure Controls/Personal Pr | rotection | |
| 3.1 Control parameters | | | |
| Substance Name | Exposure Limit / Standard | Source | |
| Wax fumes | 2 mg/m ³ TWA | ACGIH | |
| conditions. Supplementary local e ventilated spaces, very hot proces 8.3 Personal protective equipment Eye/Face Wear safety glasses equipped wit Hands Chemical protective gloves should mechanical injury. Use gloves wit Skin/Body | ly 10 air changes per hour) should be us exhaust ventilation may be needed in sp ssing, mechanical generation of dusts, e | pecial circumstances, suc etc. aterial. Use gloves to proto en needed. ed. | h as poorly ect from |

| Section 9 Physical and Chemical Properties | | | | | |
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| 0.1 Information on basis abusisal and shamisal are | operties | | | | |
| 9.1 Information on basic physical and chemical pro | Solid | | | | |
| Physical State Color | Medium blue | | | | |
| Odor | Mild | | | | |
| | | | | | |
| Odor Threshold | No data available | | | | |
| pH Malting Deint | No data available | | | | |
| Melting Point | >154°F (>68°C) | | | | |
| VOC Content | 0 | | | | |
| Boiling Point | No data available | | | | |
| Flash Point | 465°F (240°C) | | | | |
| Evaporation rate | No data available | | | | |
| Flammability (solid, gas) | No data available | | | | |
| Upper/lower flammability | No data available | | | | |
| Vapor Pressure | No data available | | | | |
| Vapor Density | No data available | | | | |
| Relative Density (g/cc) | 0.9 ± 0.05 | | | | |
| Water Solubility | Negligible | | | | |
| Coefficient: n-octanol/ water | No data available | | | | |
| Auto-Ignition Temperature | No data available | | | | |
| Viscosity | Solid at room temperature | | | | |
| Explosive Properties | None | | | | |
| Oxidizing Properties | None | | | | |
| | | | | | |
| Section 2 | 10 Stability and Reactivity | | | | |
| 10.1 Reactivity: | No dangerous reaction known under conditions of normal use. | | | | |
| 10.2 Chemical stability: | Stable under recommended storage conditions. | | | | |
| 10.3 Possibility of hazardous reactions: | Hazardous polymerization does not occur. | | | | |
| 10.4 Conditions to avoid: | Heat, sparks, open flame. Avoid dust formation. | | | | |
| 10.5 Incompatible materials: | Strong oxidizing agents. | | | | |
| 10.6 Hazardous decomposition products | May include: carbon monoxide, carbon dioxide | | | | |
| Section 12 | 1 Toxicological Information | | | | |
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| 11.1 Information or likely router of any and | Eve contact alvin contect in continu | | | | |
| | Eye contact, skin contact, ingestion | | | | |
| 11.1 Information on likely routes of exposure Acute Oral Toxicity | Very low toxicity if swallowed. Harmful effects not anticipated | | | | |
| Acute Oral Toxicity | Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. | | | | |
| Acute Oral Toxicity Acute Dermal Toxicity | Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. No adverse effects anticipated from skin absorption. | | | | |
| Acute Oral Toxicity | Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. No adverse effects anticipated from skin absorption. Vapors released during thermal processing may cause | | | | |
| Acute Oral Toxicity Acute Dermal Toxicity Acute Inhalation Toxicity | Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. No adverse effects anticipated from skin absorption. Vapors released during thermal processing may cause respiratory irritation. | | | | |
| Acute Oral Toxicity Acute Dermal Toxicity Acute Inhalation Toxicity Skin Corrosion/Irritation | Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. No adverse effects anticipated from skin absorption. Vapors released during thermal processing may cause respiratory irritation. Classification criteria not met | | | | |
| Acute Oral Toxicity Acute Dermal Toxicity Acute Inhalation Toxicity Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation | Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. No adverse effects anticipated from skin absorption. Vapors released during thermal processing may cause respiratory irritation. Classification criteria not met Classification criteria not met | | | | |
| Acute Oral Toxicity Acute Dermal Toxicity Acute Inhalation Toxicity Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Respiratory or Skin Sensitization | Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. No adverse effects anticipated from skin absorption. Vapors released during thermal processing may cause respiratory irritation. Classification criteria not met Classification criteria not met | | | | |
| Acute Oral Toxicity Acute Dermal Toxicity Acute Inhalation Toxicity Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Respiratory or Skin Sensitization Germ Cell Mutagenicity | Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. No adverse effects anticipated from skin absorption. Vapors released during thermal processing may cause respiratory irritation. Classification criteria not met Classification criteria not met Classification criteria not met Classification criteria not met | | | | |
| Acute Oral Toxicity Acute Dermal Toxicity Acute Inhalation Toxicity Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Respiratory or Skin Sensitization | Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. No adverse effects anticipated from skin absorption. Vapors released during thermal processing may cause respiratory irritation. Classification criteria not met Classification criteria not met Classification criteria not met Classification criteria not met No component of this product present at levels greater than or | | | | |
| Acute Oral Toxicity Acute Dermal Toxicity Acute Inhalation Toxicity Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Respiratory or Skin Sensitization Germ Cell Mutagenicity | Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. No adverse effects anticipated from skin absorption. Vapors released during thermal processing may cause respiratory irritation. Classification criteria not met Classification criteria not met Classification criteria not met Classification criteria not met No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen | | | | |
| Acute Oral Toxicity Acute Dermal Toxicity Acute Inhalation Toxicity Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Respiratory or Skin Sensitization Germ Cell Mutagenicity Carcinogenicity | Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. No adverse effects anticipated from skin absorption. Vapors released during thermal processing may cause respiratory irritation. Classification criteria not met Classification criteria not met Classification criteria not met Classification criteria not met No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by IARC, NTP, or OSHA. | | | | |
| Acute Oral Toxicity Acute Dermal Toxicity Acute Inhalation Toxicity Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Respiratory or Skin Sensitization Germ Cell Mutagenicity Carcinogenicity Reproductive Toxicity | Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. No adverse effects anticipated from skin absorption. Vapors released during thermal processing may cause respiratory irritation. Classification criteria not met Classification criteria not met Classification criteria not met Classification criteria not met No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by IARC, NTP, or OSHA. Classification criteria not met | | | | |
| Acute Oral Toxicity Acute Dermal Toxicity Acute Inhalation Toxicity Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Respiratory or Skin Sensitization Germ Cell Mutagenicity Carcinogenicity Reproductive Toxicity Aspiration Hazard | Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. No adverse effects anticipated from skin absorption. Vapors released during thermal processing may cause respiratory irritation. Classification criteria not met Classification criteria not met Classification criteria not met Classification criteria not met No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by IARC, NTP, or OSHA. | | | | |
| Acute Oral Toxicity Acute Dermal Toxicity Acute Inhalation Toxicity Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Respiratory or Skin Sensitization Germ Cell Mutagenicity Carcinogenicity Reproductive Toxicity Aspiration Hazard Specific Target Organ Toxicity (STOT) | Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. No adverse effects anticipated from skin absorption. Vapors released during thermal processing may cause respiratory irritation. Classification criteria not met No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by IARC, NTP, or OSHA. Classification criteria not met Not relevant | | | | |
| Acute Dermal Toxicity Acute Inhalation Toxicity Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Respiratory or Skin Sensitization Germ Cell Mutagenicity Carcinogenicity Reproductive Toxicity Aspiration Hazard | Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. No adverse effects anticipated from skin absorption. Vapors released during thermal processing may cause respiratory irritation. Classification criteria not met Classification criteria not met Classification criteria not met Classification criteria not met No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by IARC, NTP, or OSHA. Classification criteria not met | | | | |

| | Section 1 | 2 Ecological Information | |
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| 2.1 Toxicity 2.2 Persistence and degradability 2.3 Bioaccumulative potential 2.4 Mobility in soil 2.5 Results of PBT & vPvB assessi | | Not expected to be harr No data available No data available No data available No data available No data available | nful to aquatic organisms |
| | Section 1 | 3 Disposal Considerations | 3 |
| 8.1 Disposal | | Follow applicable Fede | eral, State, and local regulations. |
| | Section 1 | 4 Transport Information | |
| k.1 DOT, TDG, IMO/IMDG, IATA/I | COA: | Not regulated | |
| | Section 1 | 5 Regulatory Information | |
| under the Resource Conserv California Proposition 65 : alpha-Methylstyrene, which For more information, visit v | ation and Recover MWARNING: Thi is known to the St www.P65Warning | ry Act. is product may expose you t cate of California to cause ca is.ca.gov. | ncer. |
| Chemical Name alpha-Methylstyrene | CAS Number 98-83-9 | <pre>Concentration (%) <0.03 (estimated)</pre> | No Significant Risk Level (NSRL) Not established |
| | | n 16 Other Information | |
| EXPRESSED OR IMPLIED, IN PURPOSE. No statements he circumstances shall Seller be breach of warranty, strict of sole liability for any claims s must be confirmed by Buyer | CLUDING ANY WA erein are to be com e liable for inciden liability arising in hall be Buyer's pu by testing for its i nended for, uses fo | ARRANTY OF MERCHANTA strued as inducements to in tal, consequential or indirec connection with the produc rchase price. Data and resu intended conditions of use. r which prolonged contact | SENTATION OR WARRANTY, BILITY OR FITNESS FOR A PARTICULAR fringe any relevant patent. Under no ct damages for alleged negligence, ct(s). Buyer's sole remedy and Seller's ilts are based on controlled lab work and The product(s) has not been tested for, with mucous membranes, abraded skin, body is intended. |