

Safety Data Sheet

Ferris[®] Beads 2194 Aqua

Section 1 Chemical Product and Company Identification

1.1 Product identifiers Product name: Ferris® Beads 2194 Aqua 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 1.4 Emergency telephone number Telephone (440) 934-1902 CHEMTREC (800) 424-9300 www.freemansupply.com 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 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. For thermal burns, flush or submerge effected area in cold water to dissipate heat. Skin contact Cover with clean bandage material. Do not peel material from skin. Get medical attention. For contact at ambient temperatures, wash with soap and water. **Eve 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. 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 Measures 6.1 Personal precautions, protective equipment and emergency procedures Avoid contact with skin and eyes. Wear appropriate personal protective equipment, see Section 8. 6.2 Environmental precautions Should not be released into the environment. Prevent product from entering drains. 6.3 Methods and materials for containment and cleaning up Do not walk through spilled material. Avoid dust formation. Contain spillage and use clean non-sparking tools to collect material. Shovel spillage into suitable container for disposal. Section 7 Handling and Storage 7.1 Precautions for safe handling Wear appropriate personal protective equipment, see Section 8. Avoid contact with skin and eyes. Wash thoroughly with soap and water after handling. Do not use in areas without adequate ventilation. Avoid breathing fumes. Avoid dust formation. Avoid contact with molten material. **Specific end use(s):** Avoid heating above 100°C (212°F) during the normal investment casting process (except dewax operations). Do not let molten product stand in melt tanks and injection machines, stir product continuously. 7.2 Conditions for safe storage, including any incompatibilities Store at ambient temperatures. Keep in closed container when not in use. Keep away from ignition sources, heat, open flames, and direct sunlight. Do not store with incompatible materials, see Section 10. **Section 8 Exposure Controls/Personal Protection** 8.1 Control parameters Substance Name **Exposure Limit / Standard** Source Wax fumes 2 mg/m³ TWA ACGIH 8.2 Exposure controls **Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation may be needed in special circumstances, such as poorly ventilated spaces, very hot processing, mechanical generation of dusts, etc. 8.3 Personal protective equipment **Eve/Face** Wear safety glasses equipped with side shields, or safety goggles. Hands Chemical protective gloves should not be needed when handling this material. Use gloves to protect from mechanical injury. Use gloves with insulation for thermal protection when needed. Skin/Body No precautions other than clean body-covering clothing should be needed. Respiratory The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, or when adverse effects such as respiratory irritation has been experienced, or where indicated by your risk assessment process, then use an approved air-purifying respirator. Use an approved air-purifying respirator with organic vapor cartridge and particulate pre-filter when vapors are generated at increased temperatures. **Safety Stations** Make emergency evewash stations and washing facilities available in work area. **General Hygienic Practices** Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse. Avoid contamination of food, beverages, or smoking

operties
norrios
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Solid
Aqua
Mild
No data available
No data available
>154°F (>68°C)
0
No data available
465°F (240°C)
No data available
0.9 ± 0.05
Negligible
No data available
No data available
Solid at room temperature
None
None
None
10 Stability and Reactivity
No dangerous reaction known under conditions of normal use.
Stable under recommended storage conditions.
Hazardous polymerization does not occur.
Heat, sparks, open flame. Avoid dust formation.
Strong oxidizing agents.
May include: carbon monoxide, carbon dioxide
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L Toxicological Information
Eye contact, skin contact, ingestion
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
Not relevant
Not relevant Not expected No data available

Section 12 Ecological Information 12.1 Toxicity Not expected to be harmful to aquatic organisms 12.2 Persistence and degradability No data available 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil No data available 12.5 Results of PBT & vPvB assessment No data available **Section 13 Disposal Considerations** 13.1 Disposal Follow applicable Federal, State, and local regulations. **Section 14 Transport Information** 14.1 DOT, TDG, IMO/IMDG, IATA/ICOA: Not regulated Section 15 Regulatory Information 15.1 Safety, health and environmental regulations/legislation specific for the product Inventories: This product complies with the following inventories: Canada DSL/NDSL, USA TSCA SARA 311/312 Hazards Classifications: None SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. **RCRA:** In the form delivered, this product is not considered as hazardous waste, and is not subject to reporting under the Resource Conservation and Recovery Act. **California Proposition 65:** A WARNING: This product may expose you to chemicals including o-Aminoazotoluene and alpha-Methylstyrene, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov. **Concentration (%)** No Significant Risk Level (NSRL) **Chemical Name** CAS Number o-Aminoazotoluene 97-56-3 <0.002 (estimated) $0.2 \,\mu g/dav$ 98-83-9 <0.03 (estimated) Not established alpha-Methylstyrene **Section 16 Other Information 16.1 Disclaimer** The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended. Issue Date: May 1, 2015 Revision Date: June 8, 2022