G&H® Wire Company
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MATERIAL SAFETY DATA SHEET DIRECTIVE 91/155/EEC

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

1.1 Product or Family Name: Autoclavable Cheek Retractor, PCKE-1

1.2 Company Identification:
G&H Wire Company
P.O. Box 248, Greenwood, Indiana 46142
Telephone: 317-346-6655
Facsimile: 317-346-6663

1.3 Emergency Contact: 317-346-6655

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical family: polyolefins

2.1. CHEMICAL NAME: POLYMETHYLPENTENE COPOLYMER Exposure limits concentration %: N/A

2.2. 4-METHYL-1-PENTENE a-OLEFIN-COPOLYMER

3. HAZARDS IDENTIFICATION

3.1. **EYE CONTACT**: Dust can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Molten material causes thermal burns.

3.2. **SKIN CONTACT**: Unlikely to cause skin irritation or injury. Molten material causes thermal burns. This material is unlikely to pass into the body through the skin.

3.3. **INHALATION**: This material is a dust or may produce dust. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

3.4. **INGESTION:** Swallowing this material is not likely to be harmful.

3.5. **SYMPTONS OF EXPOSURE**: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: irritation (nose, throat, airways).

3.6. **TARGET ORGAN EFFECTS**: No data

3.7. **DEVELOPMENTAL INFORMATION**: No data

3.8. **CANCER INFORMATION**: No data

3.9. **OTHER HEALTH EFFECTS**: Thermal processing of this product can produce fumes and/or vapors. Components of these releases may vary with processing times and temperatures and therefore specific composition cannot be predicted. These fumes and/or vapors may product eye, skin and/or respiratory tract irritation. With repeated and prolonged exposure at high concentrations, these fumes and/or vapors could cause central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache).

3.10. **PRIMARY ROUTE(S) OF ENTRY**: Inhalation, skin contact, eye contact.

4. FIRST-AID MEASURES

The following measures should be taken for exposure to the raw materials by the following methods:

4.1. **EYE CONTACT:** If symptoms develop, move individual away from exposure into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention. If eye contact with molten material occurs, hold eyelids apart and flush eyes gently with cool water. Seek immediate medical attention.

4.2. **SKIN CONTACT:** First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water. If skin contact with molten materials occurs, flush exposed are with cool water. Do not forcibly remove material adhering to skin. Seek immediate medical attention.

4.3. **INHALATION:** First aid is not normally required. If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention.

4.4. **SWALLOWING:** First aid is not normally required. If symptoms develop, seek medical attention.

4.5. **NOTE TO PHYSICIAN**: Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: lung (for example, asthma-like conditions

5. FIRE-FIGHTING MEASURES

5.1. **FLASH POINT**: Not Applicable

5.2. **EXPOSIVE LIMIT**: No data

5.3. **AUTOIGNITION:** No data

5.4. **HAZARDOUS PRODUCTS OF COMBUSTION:** May form: carbon dioxide and carbon monoxide, toxic fumes.

5.5. **FIRE AND EXPLOSIONG HAZARDS**: No special fire hazards are known to be associated with this product.

5.6. **EXTINGUISHING MEDIA**: Water fog, carbon dioxide, dry chemical.

5.7. **FIRE FIGHTING INSTRUCTIONS**: Wear a self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

5.8. **NFPA Rating**: Health-1, Flammability- 1, Reactivity-0

6. ACCIDENTAL RELEASE MEASURES

6.1. **SMALL SPILL:** Sweep up material for disposal and recovery. Plastic pellets may present a slipping hazard when spilled on walking surfaces.

6.2. **LARGE SPILL**: Shovel material into containers. Thoroughly sweep area of spill to clean up any residual material. Plastic pellets may present a slipping hazard when spilled on walking surface.

7. HANDLING AND STORAGE

7.1. **HANDLING**: No adverse health effects are anticipated from the product at room temperature. However, at process temperatures, the product can emit fumes and vapors which may cause irritation of the eyes and respiratory tract. Any exposure will depend on processing technique and temperature, volume processed and the effectiveness of exhaust ventilation provided fro the process. Effects of chronic exposure to off-gases at

processing temperatures have not been fully evaluated. Generally, flame retardant additives and pigment additives are encapsulated in an impervious plastic matrix. These additives are not expected to present a hazard. Pellets may build up static electricity when being transferred from one container to another. Mechanical handling equipment can cause formation of dusts. Maintain good housekeeping. Dust layers should not be permitted to accumulate in order to avoid any potential for dust explosion hazards

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. **EXPOSURE CONTROLS**: Thermoplastic Resin: no exposure limits established.

8.2. **EYE PROTECTION**: Wear safety glasses in compliance with OSHA regulations.

8.3. **SKIN PROTECTION:** Wear normal clothing covering arms and legs. Other protective equipment: Consult your safety products supplier for proper protective equipment to use for thermal processing operations.

8.4. **RESPIRATORY PROTECTIONS**: If overexposure has be determined or documented, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. Engineering or administrative controls should be implemented to reduce exposure.

8.5. **ENGINEERING CONTROLS:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General Information:

- 9.1.1 Physical State (solid, liquid, gas): Pellets
- 9.1.2 Color: Translucent or white opaque
- 9.1.3 Odor: None

9.2 Important health, safety and environmental information

- 9.2.1 pH Value: N/A
- 9.2.2 Boiling Point/Range: N/A
- 9.2.3 Flash Point: N/A
- 9.2.4 Flammability (solid/gas): N/A
- 9.2.5 Explosive Properties: Lower 0.020 (for polymer dust <63pm): N/A
- 9.2.6 Oxidizing Properties: N/A
- 9.2.7 Vapor Pressure: N/A
- 9.2.8 Relative Density: 905 (ISO1183): N/A
- 9.2.9 Solubility:
  - (a) Water- <1 insoluble: N/A
  - (b) Solvents- insoluble: N/A
- 9.2.10 Partition coefficient: n-octanol/water: N/A
- 9.2.11 Viscosity: N/A
- 9.2.12 Vapor Density: N/A
- 9.2.13 Evaporation Rate: N/A

9.3 Other: Melting range: 160-165 C°, Auto Ignition: N/A

10. STABILITY AND REACTIVITY

10.1 Conditions to Avoid: N/A

10.2 Materials to Avoid: N/A

10.3 Hazardous Decomposition Products: May form: carbon dioxide and carbon monoxide, toxic fumes
10.4 Thermal Decomposition: N/A

11. TOXICOLOGICAL INFORMATION

11.1 Oral Toxicity: N/A
11.2 Inhalation: NA/
11.3 Skin Irritation: N/A
11.4 Sensitization: N/A
11.5 Eye Contact: N/A.
11.6 Further Details: None

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity: N/A
12.2 Mobility (groundwater): N/A
12.3 Persistence and degradability: N/A
12.4 Bioaccumulative potential: N/A
12.5 Other adverse effects: None

13. DISPOSAL CONSIDERATIONS

13.1 Product: Do not pour pellets into drains, can be incinerated in a municipal waste program for plastics.
13.2 Packaging: Per local regulations. Do not reuse packaging.
13.3 Waste Disposal Code: According to local regulations

14. TRANSPORT INFORMATION

14.1. DOT Information: 49 CFR 172.101
14.2. DOT Description: Non-Regulated by the DOT
14.3. Container/Mode: 55 Gal Drum/ Truck Package
14.4. NOS Component: None
14.5. RQ (Reportable Quantity) 49-CFR 172.101
14.6. Other Transportation Information: The DOT Transport Information may vary with the container and mode of shipment.
14.1 Other applicable information: Not restricted for transport for any of the above

15. REGULATORY INFORMATION

15.1. **US FEDERAL REGULATIONS:**
15.2. **TSCA (**Toxic Substance Control Act) Status TSCA (United States) The intentional ingredients of this product are listed.
15.3. **CERCLA:** 40 CFR 302.4 (a) None listed.
15.4. **SARA 302** Components 40 CFR 355 Appendix A None
15.5. **SECTION 311/312 Hazard Class** 40 CFR 370.2 Immediate X
15.6. **SARA 313** Components 40 CFR 372.65 None
15.7. **OSHA** Process Safety Management 29 CFR 1910 None listed
15.8. **EPA** Accidental Release Prevention 40 CFR 69 None listed.

15.9. **INTERNATIONAL REGULATIONS**: Inventory Status: DSL (Canada) The intentional ingredients of this product are listed.

15.10. State and Local Regulations: California Proposition 65 : None

16. OTHER INFORMATION

16.1 The information contained herein is based on the present state of our knowledge and is intended to describe the materials used in our products from the point of view of safety requirements. Therefore, it should not be construed as guaranteeing specific properties.

16.2 Revision Date: January 17, 2006