

**G&H® Wire Company**2165 Earlywood Drive
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MATERIAL SAFETY DATA SHEET DIRECTIVE 91/155/EEC

 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

- 1.1 Chemical Nature, Sales Name, Use: Pellethane (R) 2363-80AE Polyurethane Elastomer for Embrace Lip Protectors
- 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

Polyurethane from 4,4 methylenediphenyl CAS# 009018-04-6 >98%
Diisocyanate, 1,4-butanediol, and
Polytetramethylene glycol
Additives <2%

 3. HAZARDS IDENTIFICATION

- 3.1 None are known at ambient temperature.

 4. FIRST-AID MEASURES

- 4.1 Inhalation: None required.
4.2 Skin Contact: Wash off in flowing water or shower.
4.3 Eye Contact: Flush immediately with water for at least 5 minutes Mechanical effects only.
4.4 Ingestion: None required.

 5. FIRE-FIGHTING MEASURES

- 5.1 Suitable Extinguishing Media: Water Fog, Foam, Dry Chemical, CO2
5.2 Unsuitable Extinguishing Media: Not known
5.3 Particular Hazards: Not known
5.4 Protective Equipment for Fire-Fighters: Do not enter confined fire space without full bunker gear, which includes a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed container with water.

 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions: None required.

- 6.2 Environmental Precautions: Avoid contact with strong oxidizing agents.
- 6.3 Cleaning Methods: Sweep or Pick-up with industrial vacuum.

7. HANDLING AND STORAGE

- 7.1 Handling: No protective clothing necessary. Store in sealed containers and protect from atmospheric moisture.
- 7.2 Storage: No special requirements.
- 7.3 Storage Conditions: No special requirements.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation may be required to control mild fumes normally evolved during thermoplastic processing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Form: Solid
Color: Clear colorless to pale yellow or pigmented pellets
Odor: Odorless
- 9.2 Change of State: N/A
Melting Point/Range: N/A
Boiling Point: N/A
- 9.3 Flash Point: 455 degrees F
- 9.4 Ignition Point: N/A
- 9.5 Vapour Pressure (20°C): N/A
- 9.6 Density (20°C):
- 9.7 Solubility in: Water (20°C): Insoluble
Organic Solvent (20°C):
- 9.8 PH-Value (at 10g/1H₂O):
- 9.10 Viscosity (20°C):

10. STABILITY AND REACTIVITY

- 10.1 Thermal Decomposition: Carbon Monoxide, carbon dioxide, aliphatic compounds and traces of hydrogen cyanide at highly elevated temperatures, such as fire conditions.
- 10.2 Conditions to Avoid: Temperatures exceeding 500 degrees F.
- 10.3 Materials to Avoid: None known
- 10.4 Hazardous Decomposition Products: See step 10.1

11. TOXICOLOGICAL INFORMATION

- 11.1 Oral Toxicity: Single dose oral LD50 has not been determined. Single dose oral toxicity is believed to be very low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.
- 11.2 Inhalation: Dust may cause irritation to upper respiratory tract. At room temperature, exposure to vapors are unlikely due to physical properties; normal processing temperatures may generate vapors which may cause irritation if ventilation is inadequate.
- 11.3 Skin Irritation: Essentially nonirritating to skin. Mechanical injury only. Molten material may burn skin.
- 11.4 Sensitization: Not known
- 11.5 Eye Irritation: Solid or dust may cause irritation or corneal damage due to mechanical action. Vapors may irritate eyes.
- 11.6 Further Details: None

12. ECOLOGICAL INFORMATION

- 12.1 Acute Toxicity in Fish (LC-50/48h): Not known
- 12.2 Bacteria Toxicity (EC-0): Not known
- 12.3 Biodegradability: Not known
- 12.4 Further Details:

13. DISPOSAL CONSIDERATIONS

- 13.1 Product: Dispose in compliance with local, state, and federal regulations.
- 13.2 Packaging: Dispose in compliance with local, state, and federal regulations.
- 13.3 Waste Disposal Code: Dispose in compliance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

- 14.1 Overland Transport ADR/RID/GGVS/GGVE:
- 14.2 Sea Transport GGVSEA/IMDG-Code:
- 14.3 Air Transport ICAO/IATA-DGR:
- 14.4 Inland Waterway Transport ADNR:
- 14.5 Further Details: None

15. REGULATORY INFORMATION

Preparation as defined by the (German) Chemicals Act (dated 4/03/1990).

- 15.1 Labeling:
 - Product Contains:
 - Danger Symbol:
 - R-Sentences R36/37/38:
 - S-Sentences S26:
 - S-Sentences S28:
- 15.2 National Regulation:
 - VbF:
 - TA-Air:
 - Water Pollution 1:

16. OTHER INFORMATION

- 16.1 The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. Therefore, it should not be construed as guaranteeing specific properties.
- 16.2 Revision Date: November 28, 2006