Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

PRODUCT NAME: Boys Polyurethane Part 2
PRODUCT USE: Component of Polyurethane
EFFECTIVE DATE: 3/16/85

Warehouse Dental Supply and Manufacturing
1901 Fadley Loop, Ste. D
Tustin, CA 92780
(971) 288-7546

Section 2 – Hazardous Ingredients

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>IUPAC Name</th>
<th>% Wt/M</th>
<th>ACGIH TLV</th>
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<tbody>
<tr>
<td>8440-50-2</td>
<td>2,2'-dimethyl-1,3-propanediol diisocyanate</td>
<td>up to 20%</td>
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<tr>
<td>10250-69-5</td>
<td>1,3-benzisocyanate, 4-nitrophenyl</td>
<td>1%</td>
<td>Not Established</td>
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<tr>
<td>10449-83-9</td>
<td>1,3-benzisocyanate, 4-aminophenyl</td>
<td>1%</td>
<td>Not Established</td>
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</tbody>
</table>

Section 3 – Hazards Identification

ROUTE OF ENTRY: Eye Contact, Skin Contact, Inhalation, Ingestion
HUMAN EFFECTS AND SYMPTOMS OF EXPOSURE:
EYE CONTACT: May cause slight eye irritation or slight corneal damage in some individuals.
SKIN CONTACT: Repeated exposure may cause skin rash or irritation. Prolonged exposure may cause slight skin irritation. A single prolonged exposure is not likely to result in skin absorption in harmful amounts.
INHALATION: Vapor or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as an aerosol in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, hadwells, nausea, and dizziness.
INGESTION: If large quantities are swallowed, abdominal discomfort, nausea and diarrhea may occur. Aspiration may occur during swallowing or vomiting resulting in lung damage.
CHRONIC EFFECTS: Upon repeated contact, slight skin irritation is possible. A two year feeding study in rats showed CMIH causes effects in the pancreas, liver, thyroid and eyes. An increase in the number of tumors in the liver and thyroid of rats was observed in the liver and possibly somatic gland of female rats was found. Contains materials which may cause cancer based on animal data.

Section 4 – First Aid Measures

EYE CONTACT: Flush thoroughly with water for 15 minutes. Consult a physician.
SKIN CONTACT: Wash with soap and water. Remove contaminated clothing. Wash before reuse.
INHALATION: Remove victim to fresh air. Seek medical advice if symptoms persist.
INGESTION: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
NOTE TO PHYSICIANS: Treatment based on judgement of the physician in reaction to the patient.

Section 5 – Fire Fighting Measures

FLASH POINT: -20 F
EXTINGUISHING MEDIA: Apply water or alcohol-type foam by manufacturer's recommended techniques for large fires. Use CO2 or dry chemical media may be small fires. Special Fire Fighting PROCEDURES: Use water or a stream of water or foam to turn burning material in a water ponding area into a material that may cause self extinguishing and spread the fire.

Section 6 – Accidental Release Measures

SPOILS, LEAKS, OR RELEASES: Soak up small spills with absorbent material. Larger spills should be collected for disposal.

Section 7 – Handling and Storage

STORAGE PRECAUTIONS: Keep container tightly closed to protect from contamination. Protect from atmospheric moisture by maintaining a nitrogen atmosphere. HANDLING PRECAUTIONS: Use standard industrial practices. After handling, wash hands before eating or smoking.

Section 8 – Exposure Controls/Personal Protection

EYE PROTECTION: Use chemical goggles.
SKIN PROTECTION: Use gloves impermeable to this material when prolongated or frequent repeated isolation could occur.
RESPIRATORY PROTECTION: For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator.
VENTILATION: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Section 9 – Chemical and Physical Properties

MOLECULAR FORMULAE: Not applicable (mixture)
PHYSICAL FORM: Liquid
COLOR: White
ODOR: Odorless
BULK DENSITY: Not Established

SPECIFIC GRAVITY: Not Established
VISCOSITY: Not Established

Section 10 – Stability and Reactivity

STABILITY: This is a stable material.
Hazardous POLYMERIZATION: Will not occur.
INCOMPATIBILITIES: Strong oxidizing materials, acids, solvents. Reacts exothermically with isocyanates.
DECOMPOSITION PRODUCTS: Depending on temperature, air supply and presence of other materials, hazardous decomposition products, may include but are not limited to: aldehydes, ketones, organic acids, polymer fragments and oxides of carbon.

Section 11 – Toxicology Information

Not Established.

Section 12 – Ecological Information

Do not allow entry into soil, waterways or waste water.

Section 13 – Disposal Considerations

WASTE DISPOSAL METHOD: Waste disposal should be in accordance with existing federal, state and local requirements.
EMPTY CONTAINER PRECAUTIONS: Empty containers retain product hazard; observe all precautions for product. Do not heat or cut empty container with electric or gas torch because liquid vapor and gases are formed. Do not use without thorough commercial cleaning and reconditioning. If container is to be disposed, ensure all product residue is removed prior to disposal.

Section 14 – Transportation Information

LAND TRANSPORTATION DOT: Not regulated in Non-Bulk Containers
SEA TRANSPORTATION: Not regulated in Non-Bulk Containers
AIR TRANSPORTATION: Not regulated in Non-Bulk Containers

Section 15 – Regulatory Information

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material. To determine applicability or effects of any law or regulation with respect to the product, user should consult his legal advisor or the appropriate government agency.

UNITED STATES FEDERAL REGULATIONS:
US EPA CERCLA Hazardous Substances (40 CFR 302)
Not Evaluated
SARA Section 313/132 Hazard Categories
Not Evaluated
US EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A)
Not Evaluated
US EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.49) – Supplier Notification Required: Not Evaluated

STATE RIGHT-TO-KNOW INFORMATION:
For copies of your regulatory requirements you should contact the appropriate agency in your state.
Massachusetts, New Jersey, or Pennsylvania Right-to-Know Substances Law
Not Evaluated
New Jersey Environmental Hazardous Substances Law and/or New Jersey, RTK Special Hazardous Substances List
Not Evaluated
Cattaraugus Prop. 65: This product contains the chemicals listed below, which the State of California has found to cause cancer, birth defects or other reproductive harm.

Section 16 – Other Information

HIMS RATINGS: Health 1 Flammability 1 Reactivity 0

800-451-7778
Material Safety Data Sheet

Part 2

Section 1 - Chemical Product and Company Identification

PRODUCT NAME: Borsich Polyurethane

COMPANY NAME: Borsich Polyurethane

EFFECTIVE DATE: 3/1/1986

Section 2 - Hazardous Ingredients

AS NO. | HAZARDOUS INGREDIENTS | % | RISK WT. | ACGL 170 | TDV 170 | DANGEROUS MATERIAL (DOT) | RAC 170 | TDV 170 | MILD 170 | NON EXHAUSTION | TDV 170 | MILD 170 | NON EXHAUSTION |
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<td>318-62</td>
<td>Polyurethane Skin (APS)</td>
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<td>947-43</td>
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Section 3 - Hazards Identification

CUTE HEALTH HAZARDS

- Dermatitis
- Eye injury
- Lung injury
- Skin irritation
- Skin sensitivity
- SYSTEMIC EFFECTS
- Nausea
- Vomiting
- Diarrhea
- Hypersensitivity
- Headache
- Dizziness
- Fatigue
- Confusion
- Hypersensitivity

Inhalation: Inhalation of this material may cause irritation to the respiratory system.

Ingestion: Ingestion of this material may cause irritation to the digestive system.

Skin: Contact with this material may cause irritation to the skin.

Eye: Contact with this material may cause irritation to the eyes.

HIGHER HEALTH HAZARDS

- ORAL DOSING: Oral dosing of this material may cause irritation to the digestive system.
- INHALATION: Inhalation of this material may cause irritation to the respiratory system.
- INTRAVENOUS INJECTION: Intravenous injection of this material may cause irritation to the circulatory system.
- CUTANEOUS EXPOSURE: Cutaneous exposure to this material may cause irritation to the skin.
- INTESTINAL: Intestinal exposure to this material may cause irritation to the digestive system.
- SYSTEMIC: Systemic exposure to this material may cause irritation to the circulatory system.

Section 4 - First Aid Measures

INHALATION: If you are exposed to this material, immediately move to fresh air and call for medical assistance. If you are unable to move, call for medical assistance immediately.

INGESTION: If you are exposed to this material, immediately call for medical assistance. If you are unable to call, take the following steps:

- Do not induce vomiting.
- Do not give anything by mouth until medical assistance is obtained.
- Give nothing by the mouth until a healthcare professional determines it is safe to do so.

SKIN CONTACT: If you are exposed to this material, immediately wash the affected area with soap and water. If the material is not removed, seek medical attention immediately.

EYE CONTACT: If you are exposed to this material, immediately flush the eye with large amounts of water for at least 15 minutes. If necessary, seek medical attention immediately.

Section 5 - Fire Fighting Measures

STORAGE INFORMATION: Keep this material in a cool, dry place. Keep away from heat, sparks, and flames. Do not store near oxidizing agents. Keep away from flammable and combustible materials. Keep away from sources of ignition. Avoid breathing of vapors. Avoid contact with eyes, skin, and clothing. Avoid contact with water. Do not use or expose to water. Avoid contact with vapor. Do not mix with or use in incompatible materials. Avoid use in the presence of incompatible materials. Avoid use in the presence of incompatible solvents. Avoid use in the presence of incompatible solutions. Avoid use in the presence of incompatible solvents.

Section 6 - Accidental Release Measures

- SPILLS LEAKS: If a spill occurs, clean up only if practical and performed according to proper procedures. Be sure to wear appropriate personal protective equipment, including gloves, long-sleeved shirts, and sturdy shoes.

Section 7 - Handling and Storage

STORAGE TEMPERATURES: Store at or below 50°F (10°C). Avoid prolonged exposure to temperatures above 120°F (49°C).

STORAGE CONDITIONS: Store in a cool, dry, well-ventilated area. Do not store near heat sources. Avoid exposure to excessive temperatures. Do not store near incompatible materials.

Section 8 - Exposure Control and Personal Protection

ENGINEERING CONTROLS: Use appropriate engineering controls, such as local exhaust ventilation, to control the concentration of this material in the workplace.

PERSONAL PROTECTIVE EQUIPMENT: Use appropriate personal protective equipment, such as respiratory protection and gloves, to protect against exposure to this material.

Section 9 - Physical and Property

- COLOR: Brown Liquid
- ODOR: None
- RODLING POINT: 210°C (410°F)
- MELTING POINT: 30°C (86°F)
- FLASH POINT: 210°C (410°F)
- DENSITY: 1 g/cm³
- SPECIFIC GRAVITY: 1.24
- SPARK SENSITIVITY: Not applicable
- VOLATILITY: Low
- PRESSURE: <0.001 mil
- REACTIVITY: Stable
- TOXICITY DATA POLYURETHANE MDI

This product has not been tested as a whole. Information for components from available sources is listed below.

ORAL LD50: 2,000 mg/kg (rat, Male/Female)
DERMAL LD50: No Data
INHALATION LD50 (RAT): 400 mg/m³ (4)
SKIN IRRITATION: rabbit, slightly irritating
REPEATED DOSE IRRITATION: 30 days, inhalation, NOAE: 0.1 mg/kg, IAF: Male/Female, 6 days (0 cases) (1)
RENAL IRRITATION: No Data
MUTAGENICITY: Genetic Toxicity in vitro: Bacterial – gene mutation assay negative
CARCINOGENICITY: Not listed
DEVELOPMENTAL TOXICITY: Teratogenicity: rat, female, inhalation, gestation days 6-15, 6 males, NOAEL: (0.1 mg/kg) No teratogenic effects observed at doses tested. Fetal toxicity seen only with maternal toxicity.

DATA FOR 4,4-EPHYMOLETHANE DISOCYANATE (MDI)

INHALATION LD50: No Data
DERMAL LD50 (RABBIT): 10,000 mg/kg
INHALATION LD50 (RAT): 2,745 mg/m³ (0.5)
SKIN IRITATION: rabbit, slightly irritating
REPEATED DOSE IRRITATION: rat, 14 days, 1/3
MUTAGENICITY: Genetic Toxicity in vitro: Bacterial – gene mutation assay negative
CARCINOGENICITY: not listed
DEVELOPMENTAL TOXICITY: Teratogenicity: rat, female, inhalation, gestation days 6-15, 6 males, NOAEL: (0.1 mg/kg) No teratogenic effects observed at doses tested. Fetal toxicity seen only with maternal toxicity.

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MUTAGENICITY: Genetic Toxicity in vitro: Bacterial – gene mutation assay negative
CARCINOGENICITY: not listed
DEVELOPMENTAL TOXICITY: Teratogenicity: rat, female, inhalation, gestation days 6-15, 6 males, NOAEL: (0.1 mg/kg) No teratogenic effects observed at doses tested. Fetal toxicity seen only with maternal toxicity.

Section 12 - Ecological Information

This product has not been tested as a whole. Information for components from available sources is listed below.

ECOLOGICAL DATA FOR 4,4-EPHYMOLETHANE DISOCYANATE (MDI)

Acute and Protracted Toxicity: To Fish: LC50 > 2000 mg/L (24 hrs), 24 hrs, 48 hrs, 96 hrs
Acute and Protracted Toxicity: To Aquatic Invertebrates: LC50 > 500 mg/L (24 hrs, 48 hrs, 96 hrs)

Section 13 - Disposal Considerations

WASTE DISPOSAL: This material is classified as a hazardous waste under the regulatory authority of the Environmental Protection Agency (EPA). It must be disposed of in accordance with the applicable regulations.

Section 14 - Transportation Information

Land Transportation DOT: Proprietary Shipping Name: Other regulated substances, liquid, n.o.s.
Company HazMat No. DI-9310
DOT: 220
Hazard Class: 9
UN: NA
Packaging Group: II
Labels: Class 3
Regulatory Requirement (Reg): 6390 ft
Sea Transportation: Not Regulated
Air Transportation: Not Regulated
Additional Information: Contains inorganic elements of the remaining material that may be hazardous to the product.

Section 15 - Regulatory Information

This product is not intended to be used as a whole. Information for components from available sources is listed below.

- Material Safety Data Sheet
- Proprietary Shipping Name: Other regulated substances, liquid, n.o.s.
- Company HazMat No. DI-9310
- DOT: 220
- Hazard Class: 9
- UN: NA
- Packaging Group: II
- Labels: Class 3
- Regulatory Requirement (Reg): 6390 ft
- Sea Transportation: Not Regulated
- Air Transportation: Not Regulated
- Additional Information: Contains inorganic elements of the remaining material that may be hazardous to the product.