

Material Safety Data Sheet

May be used comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requirements

U.S.Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List)

BORON DOPANT COATING BDC1-2000

Note: Blank spaces are not permitted. If any item is not applicable, or no
Information is available, the space must be marked to indicate that.

Section I

| | |
|--|--|
| Manufacturer's Name Futurrex, Inc. | Emergency Telephone Number 800-535-5035 |
| Address (Number, Street, City, State and ZIP Code) 24-F Munsonhurst Road Franklin , New Jersey 07416 | Telephone Number for Information 973-209-1563 |
| | Date Prepared 1/3/2011 |
| | Signature of Prepare (optional) |

Section II - Hazardous Ingredients/Identity Information

| Hazardous Components (Specific Chemical Identity: Common Name(s)) | OSHA PEL | ACGIH TLV | CAS Number | % (optional) |
|---|----------|-----------|------------|--------------|
| n-Butanol | 100 ppm | 50 ppm | 71-36-3 | |
| Organic resin | N.A. | N.A. | * | |
| Phosphorus Compound | N.A. | N.A. | * | |

*All Components of the product are registered in the Chemical Substance Inventory according with the Toxic Substance Control Act.

Section III - Physical/Chemical Characteristics.

| | | | |
|----------------------------------|------|--|------|
| Boiling Point (°C) | 117 | Specific Gravity (H2O=1) | 0.85 |
| Vapor Pressure (mm Hg) (20°C) | 5.5 | Melting Point (°C) | -89 |
| Vapor Density (AIR-1) | 2.55 | Evaporatiion Rate (Butyl Acetate=1) | 0.5 |

Solubility in Water
0,68% at 20°C

Appearance and Odor
Clear liquid. Characteristic odor.

Section IV- Fire and Explosion Hazard Data

| | | | |
|---|--|-------------|-------------|
| Flash Point (Method Used) 36°C (TCC) | Flammable Limits. (% volume in air) | LEL 1.73 | UEL 10.7 |
|---|--|-------------|-------------|

Extinguishing Media.

Carbon dioxide, dry chemical media, alcohol-type or all-purpose-type foam.

Special Fire Fighting Procedures .

Use water spray to cool fire-exposed containers and structures. Use self contained breathing apparatus and protective coating.

Unusual Fire and Explosion Hazard.

Flammable vapors may be heavier than air and may travel long distance along the ground before igniting and may flash back to the vapor source.

| Section V - Reactivity Data | | | |
|---|---|--|--|
| Stability | Unstable | | Conditions to Avoid |
| | | | Avoid heat, sparks, open flame and contact with strong oxidizing agents. |
| | Stable | X | |
| Incompatibility (Materials to Avoid) | | | |
| Hazardous Decomposition or Byproducts | | | |
| Hazardous Polymerization | May Occur | | Conditons to Avoid |
| | Will Not Occur | X | Avoid heat. |
| Section VI - Health Hazard Data | | | |
| Route(s) of Entry: | Inhalation? | Skin? | Ingestion? |
| | Yes | Yes | Yes |
| Health Hazards (<i>Acute and Chronic</i>) | | | |
| Inhalation: may be slightly irritating. Skin contact: may cause defatting and drying. Ingestion: liquid ingestion may result in vomiting. | | | |
| Carcinogenicity: | NTP? | IARC Monographs? | OSHA Regulated? |
| | No | No | No |
| Signs and Symptoms of Exposure | | | |
| Inhalation: may cause dizziness, nausea, and confusion. Eyes and skin: may cause irritation. | | | |
| Medical Conditions Generally Aggrevated by Exposure | | | |
| Not investigated. | | | |
| Emergency and First Aid Procedures | | | |
| Inhalation: remove victim to fresh air. Skin contact: wash with soap and water. Ingestion: Do not induce vomiting. Get medical attention. | | | |
| Section VII - Precautions for Safe Handling and Use | | | |
| Steps to Be Taken in Case Material is Released or Spilled | | | |
| Take up spill with absorbent material and place in non-leaking containers; seal tightly for proper disposal. | | | |
| Waste Disposal Method | | | |
| Place in a disposal facility approved under RCRA regulation for hazardous waste. | | | |
| Precautions to Be Taken in Handling and Storing | | | |
| Keep away from heat, sparks and open flames. Keep containers tightly closed. Store away from strong oxidizing agents in a cool and dry place. | | | |
| Other Precautions | | | |
| None. | | | |
| Section VIII - Control Measures | | | |
| Respiratory Protection (<i>Specify Type</i>) | | | |
| Use NIOSH- approved respirator if exposure exceeds exposure limits. | | | |
| Ventilation | Local Exhaust | Special | |
| | Face velocity 60 fpm in confined space. | Use with exhaust equipment with discharge to outdoors. | |
| | Mechanical (<i>General</i>) | Other | |
| | Explosion-proof ventilation equipment. | No smoking or open flames. | |
| Protective Gloves | | Eye Protection | |
| Chemically resistant gloves. | | Chemical splash goggles or face shield. | |
| Other Protective Clothing or Equipment | | | |
| Usually not needed | | | |
| Work/Hygenic Practices | | | |
| Follow regulations appropriate for handling flammable chemicals. | | | |