

# 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 )

12 Cork Hill Road

Telephone Number for Information

973-209-1563

Franklin , New Jersey 07416

Date Prepared

1/2/2010

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.



<b>Section V - Reactivity Data</b>			
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		Conditions to Avoid
	Will Not Occur	X	Avoid heat.
<b>Section VI - Health Hazard Data</b>			
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 Aggravated 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.			
<b>Section VII - Precautions for Safe Handling and Use</b>			
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.			
<b>Section VIII - Control Measures</b>			
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.			