

# Solutia Inc.

## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BUTVAR® B-90 Polyvinyl butyral

Reference Number: 000000000463

Date: 04/22/2008

#### Company Information:

##### United States:

Solutia Inc.  
575 Maryville Center Drive, P.O. Box 66760  
St. Louis, MO 63166-6760  
Emergency telephone: Chemtrec: 1-800-424-9300  
International Emergency telephone: Chemtrec: 703-527-3887  
Non-Emergency telephone: 1-314-674-6661

##### Canada:

Solutia Canada Inc.  
6800 St. Patrick Street  
LaSalle, PQ H8N 2H3  
Emergency telephone: CANUTEC: 1-613-996-6666  
Non-Emergency telephone: 1-314-674-6661

##### Mexico:

Solutia MEXICO, S. DE R.L. DE C.V.  
Prol. Paseo de la Reforma 2654  
Local 501, Piso-5  
Col. Lomas Altas  
11950 Mexico, D.F.  
Emergency telephone: SETIQ: (in Mexico) 01-800-002-1400  
Non-Emergency telephone: (in Mexico) 01-55-5259-6800

##### Brazil:

Solutia Brazil Ltd.  
Avenue Carlos Marcondes, 1200  
CEP: 12241-420-São José dos Campos/SP-Brazil  
Emergency telephone: 55 12 3932 7100 (PABX)  
Non-Emergency telephone: 55 11 3146 1800 (PABX)

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Form: granular, solid  
Colour: white  
Odour: characteristic

#### WARNING STATEMENTS

WARNING!  
Combustible dust  
May cause eye irritation  
EXPLOSION POTENTIAL

#### POTENTIAL HEALTH EFFECTS

Likely routes of exposure: eye and skin contact  
inhalation

Eye contact: Moderately irritating to eyes.  
Dust may cause eye irritation as would any foreign material.

Skin contact: No more than slightly irritating to skin.  
No more than slightly toxic if absorbed.

Inhalation: No information available.

Ingestion: No more than slightly toxic if swallowed.  
Significant adverse health effects are not expected to develop if only small amounts (less than a mouthful) are swallowed.

Refer to Section 11 for toxicological information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS No.</u>	<u>Average concentration</u>	<u>Concentration range</u>	<u>Units</u>
polyvinyl butyral	27360-07-2	96.0		%
1,1-diethoxybutane	3658-95-5		<=2.0	%
water	7732-18-5		<=2.0	%

Polyvinyl butyral also listed as CAS No. 63148-65-2

### 4. FIRST AID MEASURES

If in eyes: Immediately flush with plenty of water.  
If easy to do, remove any contact lenses.  
Get medical attention if irritation persists.  
Remove material from skin and clothing.

If on skin: Immediate first aid is not likely to be required.  
This material can be removed with water.  
Wash heavily contaminated clothing before reuse.

If inhaled: Immediate first aid is not likely to be required.  
If symptoms occur, remove to fresh air.  
Remove material from eyes, skin and clothing.

If swallowed: Immediate first aid is not likely to be required.  
A physician or Poison Control Center can be contacted for advice.  
Wash heavily contaminated clothing before reuse.

### 5. FIRE FIGHTING MEASURES

Hazardous products of combustion: butyraldehyde; butyric acid; acrolein; crotonaldehyde; carbon monoxide (CO)

Extinguishing media: Water spray, foam, dry chemical, or carbon dioxide

Unusual fire and explosion hazards: None known

Fire fighting equipment: Firefighters, and others exposed, wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

Miscellaneous advice: This material may contain enough fines to form an explosive mixture if mixed with a sufficient quantity of air.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protection recommended in section 8.

Environmental precautions: Keep out of drains and water courses.

Methods for cleaning up: In case of spill, do not blow material. Use vacuum equipment designed specifically for handling combustible dusts. Flush spill area with water.

Refer to Section 13 for disposal information and Sections 14 and 15 for reportable quantity information.

## 7. HANDLING AND STORAGE

### Handling

Keep away from heat, sparks, and flame.  
Avoid creating dust cloud in handling, transfer and clean-up.  
Avoid contact with eyes.  
Wash thoroughly after handling.

Emptied containers retain vapour and product residue. Observe all recommended safety precautions until container is cleaned, reconditioned or destroyed. Do not cut, drill, grind or weld on or near this container. The reuse of this material's container for non industrial purposes is prohibited and any reuse must be in consideration of the data provided in this material safety data sheet.

### Storage

General: Keep in a cool, dry, well ventilated place.  
Stable under normal conditions of handling and storage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne exposure limits: (ml/m<sup>3</sup> = ppm)

BUTVAR® B-90 OSHA and/or ACGIH have not established specific exposure limits for this material. However, they have established limits for particulates not otherwise regulated (PNOR) and particulates not otherwise classified (PNOC) respectively, which are the least stringent exposure limits applicable to dusts.  
OSHA PEL: 15mg/m<sup>3</sup> (total dust) 8-hr TWA  
OSHA PEL: 5mg/m<sup>3</sup> (respirable) 8-hr TWA  
ACGIH TLV: 10mg/m<sup>3</sup> (total dust) 8-hr TWA  
ACGIH TLV: 3mg/m<sup>3</sup> (respirable) 8-hr TWA

Eye protection: Wear chemical goggles.  
Have eye flushing equipment available.

Hand protection: Although this product does not present a significant skin concern, minimize skin

contamination by following good industrial practice.  
Wearing protective gloves is recommended.  
Consult the glove/clothing manufacturer to determine the appropriate type  
glove/clothing for a given application.

Body protection: Although this product does not present a significant skin concern, minimize skin  
contamination by following good industrial practice.  
Wash contaminated skin thoroughly after handling.

Respiratory protection: Avoid breathing dust.  
Use approved respiratory protection equipment (full facepiece recommended) when  
airborne exposure limits are exceeded.  
If used, full facepiece replaces the need for face shield and/or chemical goggles.  
Consult the respirator manufacturer to determine the appropriate type of equipment for  
a given application.  
Observe respirator use limitations specified by the manufacturer.

Ventilation: Provide natural or mechanical ventilation to minimize exposure.  
If practical, use local mechanical exhaust ventilation at sources of air contamination  
such as processing equipment.

Components referred to herein may be regulated by specific Canadian provincial legislation. Please refer to exposure  
limits legislated for the province in which the substance will be used.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Flash point: combustible material

Density: 0.22 - 0.25 g/cm<sup>3</sup> bulk density

Softening point : 140 - 200 C

VOC Content: 2.8 % ;

NOTE: These physical data are typical values based on material tested but may vary from sample to sample.  
Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the  
product.

## 10. STABILITY AND REACTIVITY

Conditions to avoid: All sources of ignition.  
High humidity  
Elevated temperatures

Materials to avoid: Contact with strong oxidizing agents.

Hazardous reactions: Hazardous polymerization does not occur.

Decomposition temperature: 100 C

Hazardous decomposition products: butyraldehyde; butyric acid; acrolein; crotonaldehyde; carbon monoxide (CO)

## 11. TOXICOLOGICAL INFORMATION

This product has not been tested for toxicity, but data obtained on similar products are summarized below:

### Acute animal toxicity data

Oral:	LD50 , rat, > 10,000 mg/kg , Practically nontoxic following oral administration.
Dermal:	LD50 , rabbit, > 7,940 mg/kg , Practically nontoxic after skin application in animal studies.
Eye irritation:	rabbit , Slightly irritating to eyes (rabbit)., 24 h
Skin irritation:	rabbit , Slightly irritating to skin (rabbit)., 24 h

Mutagenicity: The active ingredient generally produced no genetic changes in standard tests using bacterial and yeast cells.

## 12. ECOLOGICAL INFORMATION

Solutia has not conducted environmental toxicity or biodegradation studies with this material.

## 13. DISPOSAL CONSIDERATIONS

US EPA RCRA Status: This material when discarded is not a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261.

Disposal considerations: Landfill  
Incineration  
Recycle

Miscellaneous advice: Local, state, provincial, and national disposal regulations may be more or less stringent. Consult your attorney or appropriate regulatory officials for information on such disposal.  
This product should not be dumped, spilled, rinsed or washed into sewers or public waterways.

## 14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

### US DOT

Other: Not regulated for transport.

### Canadian TDG

Other: Not regulated for transport.

### ICAO/IATA Class

Other: Not regulated for transport.

## 15. REGULATORY INFORMATION

All components are in compliance with the following inventories: U.S. TSCA, Canadian DSL, EU EINECS, Australian AICS, Korean, Phillipine PICCS, Chinese, Japanese ENCS

Other chemical inventory information: The polymer contained within this product is exempt from listing in the European Inventory. The monomers used to manufacture this polymer are listed as required, as are all other components of this product.

One or more of this product's components is considered to be an impurity and is not subject to the New Substances Notification Regulation under the Canadian Environmental Protection Act (CEPA).

Canadian WHMIS classification: D2(B) - Materials Causing Other Toxic Effects

### SARA Hazard Notification:

Hazard Categories Under Title III Rules (40 CFR 370): Not applicable

Section 302 Extremely Hazardous Substances: Not applicable

Section 313 Toxic Chemical(s): Not applicable

### CERCLA Reportable Quantity:

Not applicable

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation and the MSDS contains all the information required by the Canadian Controlled Products Regulation.

Refer to Section 11 for OSHA/HPA Hazardous Chemical(s) and Section 13 for RCRA classification.

Safety data sheet also created in accordance with Brazilian law NBR 14725

## 16. OTHER INFORMATION

Product use: Adhesive, binding agents

Reason for revision: Routine review and update

	Health	Fire	Reactivity	Additional Information
Suggested NFPA Rating	1	1	0	
Suggested HMIS Rating:	1	1	0	E

Prepared by the Solutia Hazard Communication Group. Please consult Solutia @ 314-674-6661 if further information is needed.

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