

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATIONS AND OF THE COMPANY UNDERTAKING

Product Name Barricade® Bead Right 365TM
Product Description Caulk
Manufacturer/Supplier Berry Plastics Corporation, Tapes and Coatings Division
Address 4058 Highway 79
 Homer, LA 71040-0749
Phone Number (318) 927-1580 (Monday – Friday 8:00 am to 5:00 pm)
 (318) 927-1578 (After hours)
Chemtrec Number (800) 424-9300
Revision Date:
MSDS Date: May 9, 2009
Safety Data Sheet according to EC directive 2001/59/EC and OSHA's Hazcom Standard (29 CFR 1910.1200)

2. HAZARDS IDENTIFICATION

EU Main Hazards

R36/38 Irritating to eyes and skin.
 R42/43 May cause sensitization by inhalation and skin contact.
 R51 Toxic to aquatic organisms.
 R61 May cause harm to the unborn child.
 R62 Possible risk of impaired fertility.

Routes of Entry

- Absorption - Eye contact - Ingestion - Inhalation - Skin contact

Carcinogenic Status

Contains ingredient considered carcinogenic by NTP, IARC, or OSHA (Ethylbenzene).

Target Organs

Skin - Eye - Respiratory System - Central Nervous System - Reproductive - Liver - Kidney - Blood - Pancreas

Health Effects - Eyes

Liquid, mist or vapor may cause pain, transient irritation and superficial corneal effects. Isocyanates are known lachrymators.

Health Effects - Skin

Material may cause irritation and allergic sensitization. Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis. Material can be absorbed through the skin and cause effects similar to those resulting from inhalation.

Health Effects - Ingestion

Swallowing may have the following effects:

- abdominal pain - vomiting - central nervous system depression - kidney damage - liver damage – blood effects - pancreatic effects - adverse reproductive effects.

A large dose may have the following effects:

- systemic effects similar to those resulting from inhalation

Health Effects - Inhalation

Exposure to vapor may have the following effects:

- irritation of nose, throat and respiratory tract - central nervous system depression - dizziness - drowsiness - headache - mental confusion - respiratory sensitization and allergic respiratory reaction

Exposure to vapor at high concentrations may have the following effects:

- nerve damage leading to numbness and muscle weakness - lung damage - liver damage - kidney damage - adverse reproductive effects - blood effects - pancreatic effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS#/Codes	Concentration	R Phrases	Classification
Polyurethane	N.A.	>80%	None	None
Butyl Benzyl Phthalate	85-68-7 201-622-7	5-15%	R50/53, R61, R62	T, N, Repro Cat. 2, Repro Cat. 3
Xylene	1330-20-7 215-535-7	1-5%	None (at ≤12.5%)	None (at ≤12.5%)
Methylene Diphenyl Isocyanate (MDI)	101-68-8 202-966-0	0.1-1.0%	R42	Xn
Ethylbenzene	100-41-4 202-849-4	0.1-1.0%	R11 (at <25%)	F (at <25%)

4. FIRST AID MEASURES

Eyes

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin

Immediately flood the skin with large quantities of water for at least 15 minutes, preferably under a shower. Remove contaminated clothing and continue washing. Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention if blistering occurs or redness persists.

Ingestion

Do not induce vomiting, unless directed to do so by a physician. Have victim drink 1-3 glasses of water to dilute stomach contents. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

Inhalation

Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

Advice to Physicians

Treat symptomatically.

5. FIRE- FIGHTING MEASURES

Extinguishing Media

Use foam, dry chemical or carbon dioxide. Be aware of the possibility of re-ignition. Keep containers and surroundings cool with water spray.

Unusual Fire and Explosion Hazards

May release hydrogen cyanide in fire situations. Vapors can travel a considerable distance to a source of ignition and flashback. Flashback can occur if air temperature exceeds flash point. Be aware of possibility of re-ignition.

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Scoop up material. Transfer into suitable containers for recovery or disposal. Wear appropriate protective clothing. Eliminate all sources of ignition. Use non-sparking scoops for flammable materials. Vapors can accumulate in low areas. Consider need for evacuation. Prevent the material from entering drains or watercourses. Notify authorities if spill has entered watercourse or sewer or has contaminated soil or vegetation.

7. HANDLING AND STORAGE

Use in well ventilated area. Use local exhaust ventilation. Avoid inhaling vapor. Avoid contact with eyes, skin and clothing. Keep container tightly closed when not in use.

Store away from sources of heat or ignition. Storage area should be: - cool - dry - well ventilated - out of direct sunlight – away from sources of ignition(heat, sparks, flames, pilot lights) - away from incompatible materials (see Section 10)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Exposure limits are listed below, if they exist.

Polyurethane

None assigned.

Butyl Benzyl Phthalate

None assigned.

Xylene

ACGIH: TLV 100 ppm (434mg/m³) 8h TWA. 150 ppm (651mg/m³) STEL

OSHA: PEL 100ppm (435mg/m³) 8h TWA

Ethylbenzene

ACGIH: TLV 100 ppm (434mg/m³) 8h TWA. 125 ppm (543mg/m³) STEL. NIC: 50 ppm 8hr TWA

OSHA: PEL 100ppm (435mg/m³) 8h TWA

Methylene Diphenyl Isocyanate (MDI)

ACGIH: TLV 0.005ppm (0.051mg/m³) 8h TWA.

OSHA PEL: 0.02 ppm (0.2 mg/m³) CEILING

Engineering Control Measures

Use engineering methods to prevent or control exposure. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

Respiratory Protection

Wear respiratory protection if there is a risk of exposure to high vapor concentrations, aerosols or if applied to hot surfaces. A NIOSH approved full face respirator may be worn. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

Hand Protection

Butyl gloves are recommended.

Eye Protection

Chemical goggles or safety glasses with side shields.

Body Protection

If there is danger of splashing, wear: overall or apron

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Paste
Color	White
Odor	Slight
pH	No data
Density	1.79 g/cc
Boiling Range/Point (°F)	No data
Melting Point (°C/F)	No data
Flash Point (°F/C)	143/62 Tag (ASTM D3828)
Viscosity	No data
Evaporation Rate (BuAc = 1)	No data

9. PHYSICAL AND CHEMICAL PROPERTIES

Solubility in Water	No data
Vapor Density (Air = 1)	No data
VOC	3.8%

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions but will react slightly with water.

Conditions to Avoid

- Heat, sparks, flames - high temperatures - sources of ignition - contact with incompatible materials

Materials to Avoid

- Strong acids - strong bases - amines - alcohols - metallic hydrides

Hazardous Polymerization

Hazardous polymerization can occur at elevated temperatures or contact with water.

Hazardous Decomposition Products

- oxides of carbon - low molecular weight hydrocarbons - oxides of nitrogen - amines - hydrogen cyanide - isocyanate containing compounds

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Xylene: Oral LD50 rat 4300 mg/kg

Dermal LD50 rabbit 4350 mg/kg

Inhalation LC50 rat 27.15 mg/l

Benzyl Butyl Phthalate: Oral LD50 rat >2000 mg/kg

Dermal LD50 rabbit >10,000 mg/kg

Ethylbenzene: Oral rat LD50 3500 mg/kg

Dermal LD50 Rabbit 15354 mg/kg

Inhalation LC50 rat 17.2 mg/l

Chronic Toxicity/Carcinogenicity

IARC Overall Evaluation for ethylbenzene: 2B (possibly carcinogenic to humans)

Ethylbenzene: A study conducted by the National Toxicology Program states that lifetime inhalation exposure of rats and mice to high concentrations of ethylbenzene (750 ppm) resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. Incidences of testicular adenoma were increased along with increased incidences of thyroid effects in rats at 750 ppm; pituitary effects were observed in female mice at 250 ppm. These effects were not observed in animals exposed to lower concentrations of ethylbenzene (75 ppm). The study does not address the relevance of these results to humans.

Methylene Diphenyl Isocyanate (MDI): Animal test data and research indicate that skin contact with diisocyanates can cause isocyanate sensitization and respiratory reaction.

Genotoxicity

Xylene: Negative Ames test with and without metabolic activation.

Ethylbenzene: Negative test results for Ames test, cytogenetic assay and bacterial gene mutation assay (with and without activation for all).

Reproductive/Developmental Toxicity

Xylene: In laboratory studies, birth defects, increased fetal lethality and delayed fetal development have been observed in offspring of female animals exposed during pregnancy.

Ethylbenzene: In laboratory animal studies, ethylbenzene has shown embryotoxic and teratogenic effects.

Benzyl Butyl Phthalate: Adverse reproductive effects have been observed in animal studies.

12. ECOLOGICAL INFORMATION

Mobility

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bio-accumulation

No relevant studies identified.

Ecotoxicity

Ethylbenzene: Rainbow trout LC50: 4.2 mg/l 96 hr

Daphnia Magna EC50: 1.8 mg/l 48 hr

Algae ((Selenastrum capricornutum) EC50 4.6 mg/l 72 hr

Xylene: Rainbow trout (Oncorhynchus mykiss) LC50:13.5 mg/l 96 hr

Palaemonetes pugio LC50: 8.5mg/l 48hr

Benzyl Butyl Phthalate: Rainbow trout (Oncorhynchus mykiss) LC50:0.82 mg/l 96 hr

Daphnia Magna EC50: 1.7 mg/l 48 hr

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near to the container. Use non-sparking tools. Do not incinerate closed containers. Empty containers may contain hazardous residues. Dispose of containers with care.

14. TRANSPORT INFORMATION

DOT CFR 172.101 Data	Not Regulated
UN Proper Shipping Name	Not Regulated
UN Class	None.
UN Number	None.
UN Packaging Group	None.
Classification for AIR Transportation (IATA)	Consult current IATA Regulations prior to shipping by air.

15. REGULATORY INFORMATION

EU Label Information

Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments(2001/60/EC and 2006/8/EC)

EU Hazard Symbol and Indication of Danger

Xn – Harmful

N - Dangerous for the environment.

R phrases

R36/38 Irritating to eyes and skin.

R43 May cause sensitization by skin contact.

R51 Toxic to aquatic organisms.

R63 Possible risk of harm to the unborn child.

R65 Harmful: may cause lung damage if swallowed.

S phrases

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37 Wear suitable protective clothing and gloves.

S45 In case of accident or if you feel unwell, seek medical advice immediately.

S53 Avoid exposure – obtain special instructions before use.

S60 This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

15. REGULATORY INFORMATION

US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS

TSCA Listing

All ingredients have been verified for inclusion on the EPA Toxic Substance Control Act Chemical Substance Inventory.

EINECS Listing

All ingredients in this product have not been verified for inclusion on the European Inventory of Existing Commercial Chemical Substances (EINECS).

DSL (Canadian) Listing

All ingredients in this product have not been verified for inclusion on the Domestic Substance List (DSL).

California Proposition 65

This product contains the following materials which the State of California has found to cause cancer, birth defects or other reproductive harm: Butyl benzyl phthalate (85-68-7) - Ethylbenzene (100-41-4)

WHMIS Classification

B3.D2A.D2B

This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required by these regulations.

SARA Title III Sect. 311/312 Categorization

Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard, Fire Hazard

SARA Title III Sect. 313

This product contains chemicals that are listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: Xylene (1330-20-7) - Ethylbenzene (100-41-4) - Methylene Diphenyl Isocyanate (101-68-8)

16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Flammability - 2

NFPA Code for Health - 2

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards – None

HMIS Ratings

HMIS Code for Flammability - 2

HMIS Code for Health - 2

HMIS Code for Reactivity - 0

HMIS Code for Personal Protection - See Section 8

Abbreviations

N/A: Denotes no applicable information found or available

CAS#: Chemical Abstracts Service Number

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer

R: Risk

S: Safety

T: Toxic

Xn: Harmful

R11: Highly flammable

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16. OTHER INFORMATION

For further Information email: msdstechical@berryplastics.com

Prepared By: EnviroNet LLC.

The information and recommendations presented in this MSDS are based on sources believed to be accurate. Berry Plastics Corporation, Tapes and Coatings Division assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the **material** for their particular purposes. In particular, we make NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, with respect to such information, and we assume no liability resulting from its use. Users should ensure that any use **or disposal** of the material is in accordance with applicable Federal, State, and local laws and regulations.
