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**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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<b>Product Code</b>	35890
<b>Trade Name</b>	EBR-P GENERAL PURPOSE EDGE BEAD REMOVER
<b>Manufacturer/Supplier</b>	Shibley Company
<b>Address</b>	455 Forest St. Marlborough, Massachusetts 01752
<b>Phone Number</b>	(508) 481-7950
<b>Emergency Phone Number</b>	(508) 481-7950
<b>Chemtrec #</b>	(800) 424-9300
<b>MSDS first issued</b>	24 May 2000
<b>MSDS data revised</b>	7 July 2000
<b>Prepared By:</b>	Environmental, Health & Safety Department
<b>Local Sales Company</b>	Shibley Company, 455 Forest Street, Marlboro, MA 01752 (508-481-7950)

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**2. COMPOSITION/INFORMATION ON THE INGREDIENTS**

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**Components without CAS numbers are Trade Secret**

<b>Component Name</b>	<b>CAS# / Codes</b>	<b>Concentration</b>
Propylene glycol monomethyl ether acetate	108-65-6	> 95.00

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**3. HAZARD IDENTIFICATION**

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<b>Main Hazards</b>	- Combustible - Irritant - Nervous System - Skin - Eye - Kidney - Liver - Respiratory System
<b>Routes of Entry</b>	Inhalation, ingestion, eye and skin contact, absorption.
<b>Carcinogenic Status</b>	Not considered carcinogenic by NTP, IARC and OSHA
<b>Target Organs</b>	- Nervous System - Skin - Eye - Liver - Kidney - Respiratory System
<b>Health Effects - Eyes</b>	Liquid or vapor may cause pain, transient irritation and superficial corneal effects.
<b>Health Effects - Skin</b>	Material may cause slight irritation on prolonged or repeated contact. Repeated and/or prolonged contact may lead to: - drowsiness - liver damage - kidney damage
<b>Health Effects - Ingestion</b>	A large dose may have the following effects: - drowsiness - liver damage - kidney damage
<b>Health Effects - Inhalation</b>	Exposure to vapor at high concentrations may have the following effects:

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### 3. HAZARD IDENTIFICATION

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- irritation of nose, throat and respiratory tract - liver damage - kidney damage

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### 4. FIRST AID MEASURES

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<b>First Aid - Eyes</b>	Immediately flush the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.
<b>First Aid - Skin</b>	Wash skin with water. Continue washing for at least 15 minutes. Obtain medical attention if blistering occurs or redness persists.
<b>First Aid - Ingestion</b>	Wash out mouth with water. Have victim drink 1-3 glasses of water to dilute stomach contents. Do not induce vomiting. Obtain medical attention. Never administer anything by mouth if a victim is losing consciousness, is unconscious or is convulsing.
<b>First Aid - Inhalation</b>	Remove from exposure. If there is difficulty in breathing, give oxygen. Seek medical attention if symptoms persist.
<b>Advice to Physicians</b>	Treat symptomatically.

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### 5. FIRE FIGHTING MEASURES

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<b>Extinguishing Media</b>	Use water spray, foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.
<b>Special Fire-Fighting Procedures</b>	This product may give rise to hazardous vapors in a fire. Vapors can travel a considerable distance to a source of ignition and result in flashback.
<b>Unusual Fire &amp; Explosion Hazards</b>	Pressure may build up in closed containers with possible liberation of combustible vapors.
<b>Protective Equipment for Fire-Fighting</b>	Wear full protective clothing and self-contained breathing apparatus.

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### 6. ACCIDENTAL RELEASE MEASURES

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<b>Spill Procedures</b>	Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Finally flush area with plenty of water.
<b>Personal Precautions</b>	Wear appropriate protective clothing. Wear respiratory protection. Eliminate all sources of ignition.

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**6. ACCIDENTAL RELEASE MEASURES**

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**Environmental Precautions** Prevent the material from entering drains or water courses.

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**7. HANDLING AND STORAGE**

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**Handling** Use local exhaust ventilation. Avoid contact with eyes, skin and clothing. Keep container tightly closed when not in use.

**Storage** Store in original containers. Store away from sources of heat or ignition. Storage area should be:  
- cool - dry - well ventilated - out of direct sunlight

**Other**  
None known.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Occupational Exposure Standards**

**Propylene glycol monomethyl ether acetate** Manufacturer recommends 30ppm 8h TWA and 90ppm 15 min STEL.

**Engineering Control Measures** Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.

**Respiratory Protection** Respiratory protection if there is a risk of exposure to high vapor concentrations. 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 rubber gloves. Other chemical resistant gloves may be recommended by your safety professional.

**Eye Protection** Chemical goggles.

**Body Protection** Normal work wear.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Physical State</b>	Liquid
<b>Color</b>	Clear
<b>Odor</b>	Sweet
<b>VOC (g/l)</b>	966
<b>Specific Gravity</b>	0.966
<b>pH</b>	Neutral
<b>Boiling Range/Point (°C/F)</b>	145.8/295

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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Flash Point (PMCC) (°C/F)	46/114
Explosion Limits (%)	Lower limit 1.5 at 20 °C. Upper limit 7.0 at 20 C..
Solubility in Water	Insoluble.
Vapor Density (Air = 1)	Heavier than air.
Evaporation Rate	Slower than ether
Vapor Pressure	Propylene Glycol Monomethyl Ether Acetate: 3.7 mmHg at 20 °C.

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**10. STABILITY AND REACTIVITY**

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Stability	Stable under normal conditions.
Conditions to Avoid	- High temperatures - Static discharge - contact with incompatible materials
Incompatibilities	- Oxidizing agents
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	None known.

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**11. TOXICOLOGICAL INFORMATION**

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Acute Data	Propylene Glycol Monomethyl Ether Acetate: Oral LD50 (rat) 8532mg/kg. Dermal LD50 (rabbit) 5000mg/kg. Material may be harmful by skin absorption.
Chronic/Subchronic Data	No data.
Genotoxicity	Propylene Glycol Monomethyl Ether Acetate: It was not mutagenic when tested in bacterial or mammalian systems.
Reproductive/Developmental Toxicity	Propylene Glycol Monomethyl Ether Acetate: Developmental effects were seen in laboratory animals only at dose levels that were maternally toxic.
Additional Data	None known.

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**12. ECOLOGICAL INFORMATION**

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Mobility	Propylene Glycol Monomethyl Ether Acetate: Koc is 0 - 50.
Persistence/Degradability	Propylene Glycol Monomethyl Ether Acetate: The product is partially or slowly biodegradable. BOD20 greater than 40%
Bio-accumulation	No data.

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**12. ECOLOGICAL INFORMATION**

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**Ecotoxicity** Propylene Glycol Monomethyl Ether Acetate: The product is rated as practically non-toxic to aquatic species.  
Tests on the following species gave a LC50 of 161mg/litre: - fathead minnows  
Tests on the following species gave a LC50 of 408mg/litre: - daphnia

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**13. DISPOSAL CONSIDERATIONS**

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**Product Disposal** Incineration is the recommended method of disposal. Dispose of in accordance with all applicable local and national regulations.

**Container Disposal** Labels should not be removed from containers until they have been cleaned. Empty containers may contain hazardous residues. Dispose of containers with care.

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**14. TRANSPORT INFORMATION**

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**DOT Ground:** Not Regulated per 49 CFR 173.150(f)(2)  
**UN Proper Shipping Name** Esters, n.o.s.  
**UN Class** (3) Flammable  
**UN Number** UN3272  
**UN Packaging Group** III  
**N.O.S. 1:** Propylene Glycol Monomethyl Ether Acetate  
**N.O.S. 2:**  
**Subsidiary Risks** None.  
**CERCLA RQ** None.  
**Marine Pollutant** No.

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**15. REGULATORY INFORMATION**

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**TSCA Listed** All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50. This product is not subject to a Section 5(e) Consent Order or Significant New Use Rule (SNUR).

**TSCA Exemptions**  
**TSCA Sec.12(b) Export Notification** This product does not contain any substances subject to Section 12(b) export notification.

**WHMIS Classification** B.3, D.2.B.  
**California Proposition 65** This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

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**15. REGULATORY INFORMATION**

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<b>SARA TITLE III-Section 311/312 Categorization (40 CFR 370)</b>	Immediate, delayed, flammability hazard
<b>SARA TITLE III-Section 313 (40 CFR 372)</b>	This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

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**16. OTHER INFORMATION**

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<b>NFPA Rating- FIRE</b>	2
<b>NFPA Rating- HEALTH</b>	2
<b>NFPA Rating- REACTIVITY</b>	0
<b>NFPA Rating- SPECIAL</b>	None.

**Revisions Highlighted**                      Composition/Information on the Components

<b>Abbreviations</b>	CAS#:    Chemical Abstract Services 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
	LD50:    Lethal Dose 50%
	LC50:    Lethal Concentration 50%
	BOD:     Biological Oxygen Demand
	Koc:     Soil Organic Carbon Partition Coefficient.
	TLm:     Median Tolerance Limit

**Disclaimer**

The data contained herein is based on information that ShipleY Company believes to be reliable, but no expressed or implied warranty is made with regard to the accuracy of such data or its suitability for a given situation. Such data relates only to the specific product described and not to such products in combination with any other product and no agent of ShipleY Company is authorized to vary any of such data. ShipleY Company and its agents disclaim all liability for any action taken or foregone on reliance upon such data.