

## Material Safety Data Sheet for Chemical Products

Date: 1 Jun 2012

### Laser Bonding Material LZB 100 Aerosol Spray Can

Page 1 of 4 in accordance with Occupational Safety and Health Administration's (OSHA) Hazard Communication Standard (29 CFR 1910.1200(g))

#### 1. Product and Company Identification

Name: **LBZ 100 Aerosol Spray Can**

Manufacturer: Permanent Impressions  
Los Angeles, CA 90041  
Tel: (323) 255-4070  
Internet: www.permanentimpressions.com

Supplier: AES Group (Aust) Pty Ltd  
P.O. Box 9379  
Wynnum Plaza, QLD 4178  
Tel: (07) 3261 9427  
Email: sales@aes-group.com.au  
Internet: www.aes-group.com.au

Use: Laser Decoration or Marking

Prepared by: James McCreary

#### 2. Composition / Information on ingredients

This product does not have exposure limit values. Product contains: metal oxide/hydroxide, acetone, ethanol, water, inorganic salts, silicatic material and extremely flammable liquefied gas.

Information on hazardous components:

CAS #	Ingredient	OSHA PEL	ACGIH TLV
None	Trade Secret Molybdenum Compound	None	TWA: Insoluble Mo 5.0 mg/ m <sup>3</sup> Soluble Mo 3.0 mg/ m <sup>3</sup>
67-64-1	Acetone	TWA 1000 ppm; 2400 mg/m <sup>3</sup>	TWA 500 ppm; 1200 mg/m <sup>3</sup>
64-17-5	Ethanol	TWA 1000 ppm; 1900 mg/m <sup>3</sup>	TWA 1000 ppm; 1880 mg/m <sup>3</sup>
74-98-6	Propane	TWA 1000 ppm; 1800 mg/m <sup>3</sup>	TWA 1000 ppm; 1800 mg/m <sup>3</sup>
75-28-5	Isobutane	None	TWA 1000 ppm

#### 3. Hazards Identification

Principle Routes of Exposure: Inhalation, Ingestion and Skin Contact

Inhalation: Respiratory irritant. May cause an allergic respiratory reaction.

Ingestion: Harmful if swallowed.

Skin Contact: Skin irritant. May cause an allergic skin reaction.

Eye Contact: Eye irritant. May cause eye irritation.

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#### 4. First Aid Measures

General Advice

Remove contaminated or saturated clothing. Bring affected person out of danger area. Place person on side in stable position if unconscious. Give person water, but do not induce vomiting. Employ mouth-to-mouth resuscitation if breathing ceases.

Inhalation: Take affected persons out into fresh air. If symptoms persist, call a

ingestion: If swallowed, give at least 3-4 glasses of water, but do not induce vomiting, get immediate medical attention

Skin contact: Remove contaminated or saturated clothing. Wash off immediately with soap or plenty of water. Use skin cream afterwards.

Eye contact: With eye held open, thoroughly rinse immediately with plenty of water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface and lids with water. Get immediate medical attention

#### 5. Fire Fighting Measures

OSHA FLAMMABILITY CLASS: Extremely Flammable

FLASH POINT: -154° F (-104° C)

Lower Exposure Limit: 1.9%

Upper Exposure Limit: 9.6%

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam or Water Mist

FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus and full protective clothing should be worn.

#### 6. Accidental Release Measures

Spill Procedures: Ensure adequate ventilation. Remove all sources of ignition.

Wear personal protective equipment. Avoid generation of dust. Collect material and place in closable container.

Environmental precautions: Avoid penetration into drainage system or in rooms situated at a lower level because of danger and explosion. Prevent penetration into soil or water and drainage systems.

#### 7. Handling and Storage

HANDLING

Safe handling advice: Contents under pressure. Do not breathe in vapors or aerosols. Keep away from sources of ignition – No smoking. Avoid contact with eyes, skin or clothes. Ensure adequate ventilation.

Advice on protection against fire and explosion: Highly volatile substances may be released during processing; therefore avoid sources of ignition. Take measures to prevent the build up of electrostatic charge.

STORAGE

Requirements for storage areas and containers: Fumes may be released in closed storage rooms or during processing. Store in a dry place at room temperature. Keep away from food, drink and animal feed.

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### 8. Exposure Controls / Personal Protection

VENTILATION: Local exhaust ventilation should be provided to keep concentrations below acceptable exposure limits.

EYE PROTECTION: Wear safety glasses or goggles with side-shields to protect against exposure.

PROTECTIVE GLOVES: Wear chemical resistant gloves.

RESPIRATORY PROTECTION: Appropriate respiratory protection is required when exposure to airborne contaminants is likely to exceed acceptable limits. Respirators should be selected and used in accordance with OSHA 29 CFR 1910.134.

OTHER PERSONAL PROTECTIVE EQUIPMENT: Wash hands immediately after use or before eat, drink or smoke. Take off saturated clothes immediately. Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and Chemical properties

FORM: Aerosol Spray

COLOR: Black Liquid

VAPOR DENSITY: Heavier than air

VOC CONTENT, Wt. %: 80%

WATER SOLUBILITY: Soluble

### 10. Stability and Reactivity

STABILITY DATA: Stable

POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide

### 11. Toxicological information

No Toxicological data available for this product

### 12. Ecological information

ECOTOXICOLOGICAL INFORMATION: No data available

CHEMICAL FATE INFORMATION: No data available

PERSISTENCE / DEGRADABILITY: No data available

APPRAISAL: No data available

MOBILITY: No data available

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### 13. Disposal Considerations

DISPOSAL OF WASTE METHOD: Dispose according to Federal, State and local laws.

### 14. Transport information

DOT SHIPPING NAME: Consumer Commodity

DOT HAZARD CLASS: ORM-D

UN/NA NUMBER: ID8000

### 15. Regulatory information

SARA HAZARD CLASS: Acute Health Hazard, Chronic Health Hazard, Fire Hazard

TSCA Inventory Status: All components of this product are in compliance with the US EPA Toxic Substance Control Act, 15 USC 2604.

CANADIAN WHMIS: Class A, Class B5, Class D2A

CALIFORNIA PROPOSITION 65: WARNING – This product contains chemicals known to the State of California to cause cancer.

### 16. Other information

DEFINITIONS AND ABBREVIATIONS :

ACGIH = American Conference of Governmental Industrial Hygienists

CAS # = Chemical Abstracts Service Registry Number

EPA = Environmental Protection Agency

IARC = International Agency for Research on Cancer

NIOSH = National Institute for Occupational Safety and Health

NTP = National Toxicology Program

OSHA = Occupational Safety and Health Administration

PEL = Permissible Exposure Limit

SARA = Superfund Amendments and Reauthorization Act

STEL = Short Term Exposure Limit. Usually a 15 minute time weighted average exposure.

TLV = Threshold Limit Values

TSCA = Toxic Substance Control Act

TWA = Time Weighted Average. Exposure concentration for a normal 8 hour day or 40 hour week.

VOC = Volatile Organic Content

**DISCLAIMER:** The information contained in this Material Safety Data Sheet (MSDS) has been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No guarantee is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products and determine the regulatory compliance obligations under any applicable Federal, State or local laws.

\*\*\* END OF MSDS \*\*\*