

# SAFETY DATA SHEET



DATE ISSUED: 12/1/2022  
SDS REF. NO: BPI Cartridge Component B  
SDS REV NO: 0.5

## 1. PRODUCT AND COMPANY IDENTIFICATION

|   |  |
|---|--|
| PRODUCT TRADE NAME:                     | BPI Cartridge (Component B)  |
| PRODUCT USE:                            | Automotive & Industrial Coating  |
| MANUFACTURER                            | Burtin Polymer Innovations<br>130 E George St<br>Adairsville, GA 30103<br>678-800-7003 |
| 24 HR EMERGENCY TELEPHONE NUMBER        |  |
| CHEMTEC (US Transportation):            | 800-424-9300   |
| CHEMTEC (International Transportation): | 202-483-7616   |



## 2. HAZARDS AND IDENTIFICATION

|                           |  |
|---------------------------|--|
| CLASSIFICATION:           | Eye Damage 1<br>Skin Corrosion 1A  |
| PICTOGRAMS:               |    |
| SIGNAL WORD:              | Danger   |
| HAZARD STATEMENTS:        | Causes severe skin burns and eye damage  |
| PRECAUTIONARY STATEMENTS: | Avoid all contact by wearing eye protection and protective clothing.<br>Do not breath vapors, fumes<br>Wash hands thoroughly after handling<br>Keep container tightly closed.<br>For Industrial and Institutional Use Only.<br>Do not eat drink or smoke when using this product<br>Avoid all contact by wearing eye protection, protective clothing and nitrile gloves. |

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name   | Weight %   | CAS Number |
|---|------------|------------|
| O,O'-Bis(2-aminopropyl)polypropyleneglycol                    | 15% to 20% | 9046-10-0  |
| Ethylenediamine Tetrakis(Ethoxylate-Block-Propoxylate) Tetrol | 5% to 10%  | 26316-40-5 |
| Ethylene glycol *   | 5% to 10%  | 107-21-1   |
| Diethylene glycol   | 5% to 10%  | 111-46-6   |
| Diethyltoluenediamine   | 5% to 10%  | 68479-98-1 |
| Carbon Black  | 0% to 5%   | 1333-86-4  |
|   |            |            |
|   |            |            |

\*Toxic chemical subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

"WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER ANDBIRTH DEFECTS OR OTHER REPRODUCTIVE HARM."

### 4. FIRST AID MEASURES

|                            |  |
|----------------------------|--|
| <b>EYES:</b>               | Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention  |
| <b>SKIN:</b>               | Wash the contaminated area with soap and water. Remove contaminated clothing and wash before reuse. If irritation develops, get medical attention.   |
| <b>INGESTION:</b>          | If swallowed, do NOT induce vomiting. Seek immediate medical attention.  |
| <b>INHALATION:</b>         | Remove person to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, give artificial respiration. |
|                            | <b>MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED</b><br><b>SYMPTOMS:</b> N/A<br><b>EFFECTS:</b> N/A  |
| <b>NOTES TO PHYSICIAN:</b> | N/A  |

### 5. FIRE FIGHTING MEASURES

|   |   |
|---|---|
| <b>SUITABLE EXTINGUISHING MEDIA:</b>      | Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective. Do not use direct stream water. May spread the fire. |
| <b>FIRE FIGHTING PROCEDURES:</b>          | Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.  |
| <b>UNUSUAL FIRE AND EXPLOSION HAZARD:</b> | No particular hazards known.  |
| <b>COMBUSTION PRODUCTS:</b>               | By Fire: Carbon Dioxide Carbon Monoxide Hydrogen cyanide, Nitrogen oxides (NOx), Amines, Hydrogen chloride gas, Hydrogen fluoride, Carbonyl halides, Oxides of phosphorus, Other hazardous decomposition products may be formed.  |

## 6. ACCIDENTAL RELEASE MEASURES

|                                  |   |
|----------------------------------|---|
| <b>SMALL SPILL:</b>              | Ventilate area. Absorb spill with absorbent material such as sawdust, vermiculite or sand, and place in a closed container.   |
| <b>LARGE SPILL:</b>              | In case of large spill, dike the area to prevent this material from entering water systems or sewers. For major spills call Chemtrec (800-424-9300).  |
| <b>ENVIRONMENTAL PRECAUTIONS</b> |   |
| <b>WATER SPILL:</b>              | For major spills call Chemtrec (800-424-9300).  |
| <b>LAND SPILL:</b>               | For major spills call Chemtrec (800-424-9300).  |
| <b>PERSONAL PRECAUTIONS:</b>     | Wear protective clothing, safety glasses and impervious gloves (e.g., neoprene gloves).   |
| <b>PROTECTIVE EQUIPMENT:</b>     | N/A   |
| <b>EMERGENCY PRECAUTIONS:</b>    | N/A   |
| <b>METHOD OF CLEANING UP:</b>    | Absorb on liquid-absorbing material (treated sawdust, diatomaceous earth, sand, kitty litter). Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations. |

## 7. HANDLING AND STORAGE

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| <b>PRECAUTIONS FOR SAFE HANDLING:</b>                            | Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Keep container closed when not in use. Material is hygroscopic and may absorb small amounts of atmospheric moisture. If contamination with Isocyanates is suspected, do not reseal containers. Avoid contact with eyes. Avoid contact with skin or clothing. Do not breathe vapors/dust. |
| <b>CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:</b> | Store at room temperature and avoid temperature extremes.  |

## 8. EXPOSURE CONTROLS\PERSONAL PROTECTION

|                                      |  |
|--------------------------------------|--|
| <b>OSHA TABLE COMMENTS:</b>          | NL = Not Listed  |
| <b>EXPOSURE LIMITS:</b>              | Ethylene Glycol ACGIH - Threshold Limit Values - Notice of Intended Changes (TLVs)<br>Ethylene glycol 10 mg/m <sup>3</sup> TWA (inhalable fraction, aerosol only); 25 ppm TWA (inhalable fraction and vapor, application restricted to conditions in which there are negligible aerosol exposures); 50 ppm STEL (inhalable fraction and vapor, negligible aerosol exposures); A4 - not classifiable as a human carcinogen; TLV basis: eye and upper respiratory tract irritation.<br>Prop 65 – Ethylene glycol is known to the state of California to cause cancer and/or birth defects.<br>Polyoxypropylenediamine 9046-10-0 – LD50 Rat (oral) 480mg/Kg – causes severe eye damage. |
| <b>ENGINEERING CONTROLS:</b>         | Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s). General ventilation is recommended. Additional local exhaust ventilation is recommended where vapors, mists, or aerosols may be released.  |
| <b>PERSONAL PROTECTIVE EQUIPMENT</b> |  |
| <b>EYES AND FACE:</b>                | Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protection devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.   |
| <b>SKIN:</b>                         | Wear chemical resistant gloves. Wear protective clothing to prevent skin contact. Keep exposed skin area to a minimum. Eye wash station and safety shower should be available.   |
| <b>RESPIRATORY:</b>                  | If exposure can exceed the PEL/TLV, use only NIOSH/MSHA approved air purifying or supplied air respirator operated in a positive pressure mode per the NIOSH/OSHA occupational health guidelines for chemical hazards. If it is possible to generate significant levels of vapors or mists, a NIOSH approved or equivalent respirator is recommended.  |

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|---------------------------------|--|
| <b>WORK HYGIENIC PRACTICES:</b> | Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work, using plenty of soap and water. Open containers of food and beverages should be kept away from areas where the product is used or stored. Eating, drinking, smoking and application of cosmetics should be prohibited in areas where the product is being used. |
| <b>OTHER USE PRECAUTIONS:</b>   | N/A  |
| <b>COMMENTS:</b>                | N/A  |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |                               |
|---|-------------------------------|
| <b>PHYSICAL STATE:</b>                      | Viscous Liquid                |
| <b>COLOR:</b>                               | Black, Grey, Tan, Clear, ect. |
| <b>ODOUR:</b>                               | Amine like                    |
| <b>ODOUR THRESHOLD:</b>                     | N/A                           |
| <b>pH:</b>                                  | 11.5                          |
| <b>MELTING POINT:</b>                       | N/A                           |
| <b>BOILING POINT:</b>                       | N/A                           |
| <b>FLASH POINT AND METHOD:</b>              | 200°F closed cup ASTM D 93    |
| <b>EVAPORATION RATE:</b>                    | N/A                           |
| <b>FLAMMABILITY(Solid/Gas):</b>             | N/A                           |
| <b>FLAMMABLE LIMITS:</b>                    | N/A TO N/A                    |
| <b>VAPOUR PRESSURE:</b>                     | ~20 mm Hg                     |
| <b>VAPOUR DENSITY:</b>                      | N/A                           |
| <b>SPECIFIC GRAVITY:</b>                    | Average 1.2                   |
| <b>% SOLUBILITY IN WATER:</b>               | Slightly soluble              |
| <b>OCTANOL/WATER PARTITION COEFFICIENT:</b> | N/A                           |
| <b>AUTO-IGNITION TEMPERATURE:</b>           | None by test                  |
| <b>DECOMPOSITION TEMPERATURE:</b>           | N/A                           |
| <b>POUR POINT:</b>                          | N/A                           |
| <b>MOLECULAR FORMULA:</b>                   |                               |
| <b>% VOLATILE:</b>                          | N/A                           |
| <b>VISCOSITY:</b>                           | N/A                           |
| <b>MOLECULAR WEIGHT:</b>                    |                               |

## 10. STABILITY AND REACTIVITY

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| <b>STABLE:</b>                             | Stable under recommended storage conditions.   |
| <b>HAZARDOUS POLYMERIZATION:</b>           | Will not occur.  |
| <b>CONDITIONS TO AVOID:</b>                | Temperature extremes   |
| <b>STABILITY:</b>                          | Stable   |
| <b>POLYMERIZATION:</b>                     | Will not occur before use.   |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>   | By high heat or fire: Carbon Monoxide, Oxides of Nitrogen and various hydrocarbon fragments.   |
| <b>INCOMPATIBLE MATERIALS:</b>             | Strong acids, oxidizing agents, alkali and Isocyanates   |
| <b>INCOMPATIBLE MATERIALS: (CONT)</b>      | carbon dioxide gas and a layer of solid polyurea. Reaction with water will generate carbon dioxide and heat. Avoid contact with metals such as: Aluminum. Zinc. Brass. Tin. Copper. Galvanized metals. Avoid contact with absorbent materials such as: Moist organic absorbents. Avoid unintended contact with polyols. The reaction of polyols and isocyanates generate heat. |
| <b>POSSIBILITY OF HAZARDOUS REACTIONS:</b> | N/A  |

**11. TOXICOLOGICAL INFORMATION**

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| <b>SIGNS AND SYMPTOMS OF OVEREXPOSURE:</b> | Dizziness and labored breathing.   |
| <b>ACUTE EFFECTS:</b>                      |  |
| <b>EYE:</b>                                | Exposure to liquid may cause severe eye irritation. Symptoms may include stinging, tearing, and swelling. If exposed get medical attention immediately. Vapors can cause temporary corneal edema with symptoms of blurred vision or the appearance of halos around bright objects. |
| <b>SKIN:</b>                               | Exposure to liquid may cause severe skin irritation with symptoms of reddening, itching, and swelling. If exposed get medical attention immediately.   |
| <b>INHALATION:</b>                         | Vapor can reduce oxygen available for breathing.   |
| <b>INGESTION:</b>                          | Single dose or oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.  |
| <b>TARGET ORGAN:</b>                       | Eyes, skin   |
| <b>CHRONIC EFFECTS:</b>                    | Not expected to cause adverse chronic health effects under normal use conditions   |
| <b>ACUTE TOXICITY VALUES:</b>              | N/A  |
| <b>SYMPTOMS OF RELATED</b>                 |  |
| <b>PHYSICAL:</b>                           | N/A  |
| <b>CHEMICAL:</b>                           | N/A  |
| <b>TOXICOLOGICAL CHARACTERISTICS:</b>      | N/A  |
| <b>DELAYED AND IMMEDIATE EFFECTS:</b>      | N/A  |

**12. ECOLOGICAL INFORMATION**

|                                       |                      |
|---------------------------------------|----------------------|
| <b>ECOTOXICOLOGICAL INFORMATION:</b>  | N/A                  |
| <b>PERSISTENCE AND DEGRADABILITY:</b> | Poorly biodegradable |
| <b>BIO-ACCUMULATIVE POTENTIAL:</b>    | N/A                  |
| <b>MOBILITY:</b>                      | N/A                  |
| <b>OTHER ADVERSE EFFECTS:</b>         | N/A                  |

**13. DISPOSAL CONSIDERATIONS**

|                                |  |
|--------------------------------|--|
| <b>WASTE TREATMENT METHODS</b> |  |
| <b>DISPOSAL METHOD:</b>        | DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Recycler. Reclaimer. Incinerator or other thermal destruction device. |
| <b>EMPTY CONTAINER:</b>        | Empty containers should be decontaminated and either passed to an approved drum recycler or destroyed.   |

| 14. TRANSPORT INFORMATION                          |  |
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| DOT (DEPARTMENT OF TRANSPORTATION) TECHNICAL NAME: | N/A  |
| UN NUMBER:   | UN2735   |
| UN PROPER SHIPPING NAME:                           | Amines, liquid corrosive, N.O.S. (Polyoxypropylenediamine) |
| TRANSPORT HAZARD CLASS:                            | 8  |
| PACKING GROUP:                                     | II   |
| MARINE POLLUTANT:                                  | N/A  |
| SPECIAL PRECAUTIONS:                               | N/A  |

| 15. REGULATORY INFORMATION   |              |
|--|--------------|
| <b>Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312</b>  |              |
| Acute toxicity (any route of exposure)<br>Respiratory or skin sensitisation<br>Specific target organ toxicity (single or repeated exposure)<br>Skin corrosion or irritation<br>Serious eye damage or eye irritation        |              |
| <b>Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313</b>   |              |
| This product contains the following substances which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and which are listed in 40 CFR 372. |              |
| <b>Components</b>  | <b>CASRN</b> |
| Diphenylmethane Diisocyanate, isomers and homologues   | 9016-87-9    |
| 4,4'-Methylenediphenyl diisocyanate  | 101-68-8     |
| <b>Pennsylvania Worker and Community Right-To-Know Act:</b>  |              |
| To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.  |              |
| <b>California Prop. 65</b>   |              |
| This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.   |              |
| <b>United States TSCA Inventory (TSCA)</b>   |              |
| All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.   |              |

| 16. OTHER INFORMATION  |  |
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| <b>Legend</b>  |  |
| ACGIH  | USA. ACGIH Threshold Limit Values (TLV)  |
| C  | Ceiling  |
| OSHA Z-1   | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| STEL   | Short term exposure limit  |
| TWA  | Time weighted average  |
| <b>Full text of other abbreviations</b>  |  |
| AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous |  |

Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population(Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL – No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP – National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bio accumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the EuropeanParliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA -Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bio accumulative

**Information Source and References**

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

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