



# SDS

## SAFETY DATA SHEET

|   |           |
|---|-----------|
| <b>Product Name:</b><br>(as shown on label) | ML-210-IB |
|---|-----------|

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910200(g). Standards must be consulted for specific requirements.

### Section I - Identification

|             |                       |                |   |
|-------------|-----------------------|----------------|---|
| Part #:     | ML-210-IB             | Manufacturer:  | AZ Technology Inc.                            |
| Spec/Rev #: | CPS-C-016 Rev. B      | Address:       | 180 West Park Loop NW<br>Huntsville AL, 35806 |
| Usage:      | Black Optical Coating | Company Ph.# : | (256) 837-9877                                |
|             |                       | Emergency #:   | (256) 837-9877                                |

### Section II - Hazard Identification

|  |  |
|--|--|
| <b>Hazard statement and classification</b> | H400 category 1 Very toxic to aquatic life<br>H410 category 1 Very toxic to aquatic life with long lasting effects                       |
| <b>Signal Word</b>                         | <b>Caution:</b> Irritant (eye and skin).   |
| <b>Pictograms</b>                          |  |
| <b>Safety Phrases</b>                      | S26 contact with eyes, rinse immediately with plenty of water and seek medical advice  |
| <b>Precautionary Statements</b>            | P273 Avoid release to the environment<br>P391 Collect spillage<br>P501 Dispose of contents/container to an approved waste disposal plant |

### Section III - Composition/Information on Ingredients

| Common Name        | CAS#      | OSHA PEL     | ACGIH TLV    | Other Limits Recommended |
|--------------------|-----------|--------------|--------------|--------------------------|
| Carbon Black       | 8021-99-6 | None establ. | None establ. | n/a                      |
| Potassium Silicate | 1312-76-1 | n/a          | n/a          | 5 mg/m <sup>3</sup>      |
| Distilled Water    | n/a       | n/a          | n/a          | n/a                      |

AZ Technology reserves all rights to mix percentages and methods withheld as a trade secret.

### Section IV - First-Aid Measures

|  |  |
|--|--|
| <b>Inhalation:</b>   | If inhaled, remove to fresh air and give oxygen if difficulty breathing.   |
| <b>Skin Irritation:</b>  | Wash skin with soap and water.   |
| <b>Eye Contact:</b>  | Flush eyes with copious amounts of water.  |
| <b>Ingestion:</b>  | If swallowed, wash conscious victims mouth out with water  |
| <b>Important symptoms or effects including acute or delayed:</b> | Burning pain in nose and throat; pain, redness and tearing of eyes; itching and localized burning sensation on skin; ingestion produces vomiting due to gastric irritation. Medical Conditions: Asthma, lung, and skin diseases. |
| <b>Treatment Recommendations:</b>                                | Consult a physician in all cases.  |

## Section V - Fire-Fighting Measures

|                                   |                 |
|-----------------------------------|-----------------|
| Extinguishing recommendations     | Water or other  |
| Combustion/Flashpoint Information | Non-combustible |
| Equipment recommendations         | n/a             |

## Section VI - Accidental Release Measures

|   |  |
|---|--|
| Preventive precautionary measures                       | Wear respirator, safety goggles, rubber boots, and gloves.                                     |
| Emergency procedures<br>(i.e. evac, consulting experts) | none   |
| Containment procedures                                  | none   |
| Cleanup Procedures                                      | For solids, sweep up and place in bag. Hold for waste disposal. For liquids use water or soap. |

## Section VII - Handling and Storage

|  |                                 |
|--|---------------------------------|
| Safe handling precautions                                  | Keep at ambient temperatures.   |
| Safe storage recommendations (including incompatibilities) | Store at dry ambient conditions |

## Section VIII - Exposure Controls/Personal Protection

See Section III chart for: OSHA Permissible Exposure Limits (PELs), American Conference of Governmental Industrial Hygienists (ACGIH), Threshold Limit Values (TLVs), other limits and/or recommendations

|  |  |
|--|--|
| Ventilation and/or enclosure recommendations | Wear appropriate NIOSH-approved respirator, safety goggles, gloves, and other protective clothing. Safety shower and eye bath should be within direct access. Do not breath dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Use with adequate ventilation. Wash thoroughly after handling. |
| PPE recommended                              | Protective gloves, Barrier creams may help prevent skin irritation to hypersensitive people.   |
| PPE requiremented                            | Use NIOSH approved mist respirator where spray occurs. Use safety eyewear.   |

## Section IX - Physical and Chemical Properties

|                    |                              |   |                   |
|--------------------|------------------------------|---|-------------------|
| Appearance         | Viscous white colored liquid | Flammability/Explosive Limits             | n/a               |
| Odor               | Odorless                     | Odor Threshold                            | n/a               |
| PH                 | Slightly Alkaline            | Vapor Pressure                            | none given        |
| Melting Point      | none given                   | Vapor Density                             | none given        |
| Freezing Point     | 0°C                          | Relative Density                          | none given        |
| Flash Point        | Non-Combustable              | Solubility                                | Complete in Water |
| Boiling Point      | ~100°C                       | Evaporation rate                          | none given        |
| Viscosity          | none given                   | Flammability (solid, gas)                 | n/a               |
| Decomposition temp | none given                   | Partition Coefficient:<br>n-octanol/water | n/a               |

## Section X - Stability and Reactivity

|                                     |  |
|-------------------------------------|--|
| Reactivity (suggested by test data) | No data Available  |
| Conditions that should be avoided   | Flammable hydrogen gas may be produced on prolonged contact with metals (i.e. Aluminum, Tin, Lead, or Zinc). |
| Stable under ambient conditions     | Stable   |
| Polymerize thresholds               | Will Not Occur   |

## Section XI - Toxicological Information

| Acute Toxicity                     | Carbon Black        | Potassium Silicate                   |
|------------------------------------|---------------------|--------------------------------------|
| <b>Oral LD50:</b>                  | > 5,000 mg/kg (rat) | > 5,000 mg/kg bw (rat)               |
| <b>Inhalation LC50:</b>            | no data available   | > 2.06 g/m <sup>3</sup> (rat)        |
| <b>Dermal LD50 (rat):</b>          | no data available   | > 5,000mg/kg bw                      |
| <b>Chronic Toxicity:</b>           | no data available   | no data available                    |
| <b>Corrosion Irritation:</b>       | non irritant        | mist may cause irritation            |
| <b>Sensitization:</b>              | non sensitizer      | not sensitising                      |
| <b>Single Target Organ (STOT):</b> | no data available   | not classified                       |
| <b>Numerical Measures:</b>         | no data available   | no data available                    |
| <b>Carcinogenicity:</b>            | no data available   | no structure alerts                  |
| <b>Mutagenicity:</b>               | no data available   | No evidence of genotoxicity          |
| <b>Reproductive Toxicity:</b>      | no data available   | no evidence of reproductive toxicity |
| <b>Aspiration Hazard:</b>          | no data available   | not classified                       |
| <b>Additional Information:</b>     | n/a                 | n/a                                  |

## Section XII - Ecological Information (non-mandatory)

|   | Carbon Black      | Potassium Silicate  |
|---|-------------------|---|
| <b>Toxicity:</b>                          | no data available | LC50 - Leuciscus idus (fish) - >146 mg/l - 48 h<br>EC50 - Daphnia magna - > 146 mg/l - 24 h   |
| <b>Persistence and degradability:</b>     | no data available | Inorganic soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica |
| <b>Bioaccumulative potential:</b>         | no data available | Inorganic. The substance has no potential for bioaccumulation   |
| <b>Mobility in soil:</b>                  | no data available | n/a   |
| <b>Results of PBT and vPvB assesment:</b> | no data available | not classified as PBT or vPvB   |
| <b>Other adverse effects:</b>             | no data available | The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.                                      |

## Section XIII - Disposal Considerations (non-mandatory)

### Recommendations for:

|                              |   |
|------------------------------|---|
| <b>Disposal Container(s)</b> | none  |
| <b>Disposal Method</b>       | Solids; bury in landfill site approved for chemical and hazardous waste disposal. Liquids; neutralize with dilute acid and landfill solids per local, state, and federal regulations. |
| <b>Sewage Disposal</b>       | Flush neutralized liquid to sewer with plenty of water. Observe all local, state, and federal environmental regulations.  |

### Section XIV - Transport Information (non-mandatory)

|   |     |
|---|-----|
| UN#   | n/a |
| UN Proper Shipping Name   | n/a |
| Transport Hazard Class  | n/a |
| Packing Group Number<br>(if applicable, based on the degree of hazard)                          | n/a |
| Environmental hazards<br>(marine pollutant? International Maritime Dangerous Goods Code (IMDG)) | n/a |
| Guidance on Bulk Transport  | n/a |

### Section XV - Regulatory Information (non-mandatory)

It is the responsibility of each company to comply to proper regional regulations.

### Section XVI - SDS History

| <u>Line #</u> | <u>Date</u> | <u>Revision</u> | <u>Comments</u> |
|---------------|-------------|-----------------|-----------------|
| 1             | 12/31/2015  | A               | MSDS to SDS     |
| 2             | 6/1/2016    | B               | Address change  |
|               |             |                 |                 |
|               |             |                 |                 |
|               |             |                 |                 |