


## 1 - Identification

|                                      |  |
|--------------------------------------|--|
| <b>Product identifier</b>            | <b>AnJET™2050N</b>   |
| <b>Other means of identification</b> | Not available.   |
| <b>Synonym(s)</b>                    | Food grade ink   |
| <b>Recommended use</b>               | Inkjet Printing  |
| <b>Recommended restrictions</b>      | None Known.  |
| <b>Issue date</b>                    | 22-March-2017  |
| <b>Company identification</b>        | <b>MYLAN GROUP</b><br>Long Duc Industrial Park<br>Tra Vinh City, Tra Vinh Province, Vietnam<br>Tel. 84-294-3846-997<br>Fax 84-294-3846-998 |

## 2 - Hazard(s) identification

|                                |  |            |
|--------------------------------|--|------------|
| <b>Physical hazards</b>        | Flammable liquids.   | Category 3 |
| <b>Health hazards</b>          | Not classified.  |            |
| <b>OSHA hazard(s)</b>          | Not classified.  |            |
| <b>Label elements</b>          |   |            |
| <b>Signal word</b>             | Warning  |            |
| <b>Hazard statement</b>        | H226- Flammable liquid and vapor.  |            |
| <b>Precautionary statement</b> |  |            |
| <b>Prevention</b>              | P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.<br>P233 - Keep container tightly closed.<br>P240 - Ground/Bond container and receiving equipment.<br>P241 - Use explosion-proof electrical/ventilating/lighting/equipment.<br>P242 - Use only non-sparking tools.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection.<br>P370+P378- In case of fire: for small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam to extinguish. For large fires, use water spray, fog, or alcohol-resistant foam to extinguish. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water. |            |
| <b>Response</b>                | P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.   |            |
| <b>Storage</b>                 | P403 + P235 - Store in a well-ventilated place. Keep cool.   |            |

|  |   |          |
|--|---|----------|
| <b>Disposal</b>  | P501- Dispose of contents/container in accordance with local/regional/national/international regulations.   |          |
| <b>Hazard(s) not otherwise classified (HNOC)</b>                     | Not classified.   |          |
| <b>Environmental hazards</b>   | Not classified.   |          |
| <b>3 - Composition/information on ingredients</b>                    |   |          |
| <b>Mixtures</b>  |   |          |
| <b>Chemical name</b>   | <b>CAS Number</b>   | <b>%</b> |
| Water  | 7732-18-5   | >60      |
| Ethanol  | 64-17-5   | <20      |
| Glycerol   | 56-81-5   | <5       |
| Food grade dye mixture   | Proprietary   | <10      |
| <b>4. First-aid measures</b>   |   |          |
| <b>Inhalation</b>  | Move person to fresh air immediately.<br>If symptoms persist, get immediate medical attention.  |          |
| <b>Skin contact</b>  | In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Wash clothing separately before reuse.<br>Get medical attention, if needed.                                      |          |
| <b>Eye contact</b>   | In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br>Get medical attention immediately.  |          |
| <b>Ingestion</b>   | Rinse mouth out with water. If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to an unconscious person.<br>Get medical attention immediately. |          |
| <b>Most important symptoms/ effects, acute and delayed</b>           | See section 8.  |          |
| <b>5. Fire-fighting measures</b>                                     |   |          |
| <b>FLASH POINT:</b>  | 35°C  |          |
| <b>Suitable extinguishing media</b>                                  | Suitable extinguishing media: sand, carbon dioxide (CO2) or dry chemical.   |          |
| <b>Unsuitable extinguishing media</b>                                | Not available.  |          |
| <b>Specific hazards arising from the chemical</b>                    | Not applicable.   |          |
| <b>Special protective equipment and precautions for firefighters</b> | Firefighters should wear full protective clothing including self-contained breathing apparatus. Avoid run off into storm sewers and ditches which lead to waterways.  |          |
| <b>Fire-fighting equipment/instructions</b>                          | Move containers from fire area if you can do it without risk.   |          |

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Not available.

**Environmental precautions** Not available.

**Methods and materials for containment and cleaning up** Not available.

## 7. Handling and storage

**Precautions for safe handling** Not available.

**Conditions for safe storage, including any incompatibilities** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR1910.1000)

| Components            | Type | Value                              |
|-----------------------|------|------------------------------------|
| Ethanol (CAS 64-17-5) | PEL  | 1900 mg/m <sup>3</sup><br>1000 ppm |

#### US. ACGIH Threshold Limit Values

| Components            | Type | Value    |
|-----------------------|------|----------|
| Ethanol (CAS 64-17-5) | STEL | 1000 ppm |

#### US. NIOSH: Pocket Guide to Chemical Hazards

| Components            | Type | Value                              |
|-----------------------|------|------------------------------------|
| Ethanol (CAS 64-17-5) | TWA  | 1900 mg/m <sup>3</sup><br>1000 ppm |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** Not available.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Not available.

**Skin protection**

**Hand protection** Not available.

**Other** Not available

**Respiratory protection** Not available

**Thermal hazards** Not available.

**General hygiene considerations** When using, do not eat, drink or smoke. Wash hands after handling the product.

## 9. Physical and chemical properties

|   |                 |
|---|-----------------|
| <b>Appearance</b>                                   | Brown liquid.   |
| <b>Odor</b>   | Not available   |
| <b>Odor threshold</b>                               | Not available.  |
| <b>pH</b>   | Not available.  |
| <b>Melting point/freezing point;</b>                | Not available.  |
| <b>Initial boiling point and boiling range</b>      | >70°C           |
| <b>Flash point</b>                                  | 35°C            |
| <b>Evaporation rate</b>                             | Not available.  |
| <b>Flammability (solid, gas)</b>                    | Not applicable. |
| <b>Upper/lower flammability or explosive limits</b> |                 |
| <b>Flammability limit - lower (%)</b>               | Not available.  |
| <b>Flammability limit - upper (%)</b>               | Not available.  |
| <b>Explosive limit - lower (%)</b>                  | Not available.  |
| <b>Explosive limit - upper (%)</b>                  | Not available.  |
| <b>Vapor pressure</b>                               | Not available.  |
| <b>Vapor density</b>                                | Not available.  |
| <b>Relative density</b>                             | Not available.  |
| <b>Solubility(ies)</b>                              | Not available.  |
| <b>Partition coefficient: n-octanol/water</b>       | Not available.  |
| <b>Auto-ignition temperature</b>                    | Not available.  |
| <b>Decomposition temperature</b>                    | Not available.  |
| <b>Viscosity at 25°C (cPs)</b>                      | 2.0 - 4.0       |
| <b>Specific Gravity</b>                             | Not available.  |

## 10. Stability and reactivity

|   |                              |
|---|------------------------------|
| <b>Reactivity</b>                         | Not available.               |
| <b>Chemical stability</b>                 | Stable at normal conditions. |
| <b>Possibility of hazardous reactions</b> | None known.                  |
| <b>Conditions to avoid</b>                | Not available                |

|   |  |  |
|---|--|--|
| <b>Incompatible materials</b>   | Not available.   |  |
| <b>Hazardous decomposition products</b>   | Not available.   |  |
| <b>11. Toxicological information</b>  |  |  |
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | Not available.   |  |
| <b>Information on toxicological effects</b>   |  |  |
| <b>Acute toxicity value</b>   |  |  |
| <b>Components</b>   | <b>Species</b>   | <b>Test results</b>  |
| <b>Ethanol (CAS 64-17-5)</b>  |  |  |
| <b>Acute</b>  |  |  |
| Inhalation  |  |  |
| LC50  | Mouse<br>Rat   | 39 mg/l, 4 Hours<br>20000 mg/l, 10 Hours                               |
| Oral  |  |  |
| LD50  | Dog<br>Guinea pig<br>Mouse<br>Rat  | 5.5 g/kg<br>5.6 g/kg<br>Mouse 3450 mg/kg<br>Rat 7060 mg/kg<br>6.2 g/kg |
| Other   |  |  |
| LD50  | Mouse<br>Rat   | 933 mg/kg<br>1440 mg/kg  |
| <b>Skin corrosion/irritation</b>  | Not available.   |  |
| <b>Serious eye damage/eye irritation</b>  | Eye Contact: Not available.<br>Inhalation: Not available.<br>Ingestion: Not available. |  |
| <b>Respiratory sensitization</b>  | Based on available data, the classification criteria are not met.                      |  |
| <b>Skin sensitization</b>   | Based on available data, the classification criteria are not met.                      |  |
| <b>Germ cell mutagenicity</b>   | Based on available data, the classification criteria are not met.                      |  |
| <b>Carcinogenicity</b>  | Based on available data, the classification criteria are not met.                      |  |
| <b>Specific target organ toxicity - single exposure</b>                             | Based on available data, the classification criteria are not met.                      |  |
| <b>Specific target organ toxicity - repeated exposure</b>                           | Based on available data, the classification criteria are not met.                      |  |
| <b>Aspiration hazard</b>  | Based on available data, the classification criteria are not met.                      |  |
| <b>12. Ecological information</b>   |  |  |
| <b>Aquatic toxicity</b>   |  |  |
| <b>Eco toxicity</b>   |  |  |

| <b>Components</b>  | <b>Species</b>                                     | <b>Test Results</b>       |
|--|--|---------------------------|
| <b>Ethanol (CAS 64-17-5)</b>                             |  |                           |
| <b>Aquatic</b>   |  |                           |
| Crustacea  | EC50 Water flea ( <i>Daphnia magna</i> )           | 7.7 - 11.2 mg/l, 48 hours |
| Fish   | LC50 Fathead minnow ( <i>Pimephales promelas</i> ) | > 100 mg/l, 96 hours      |
| <b>Persistence and degradability</b>                     | Not available.                                     |                           |
| <b>Bioaccumulative potential</b>                         | Not available.                                     |                           |
| <b>Partition coefficient n-octanol / water (log Kow)</b> |  |                           |
| Ethanol (CAS 64-17-5)                                    | -0.31  |                           |
| <b>Mobility in soil</b>                                  | Not available.                                     |                           |
| <b>Other adverse effects</b>                             | Not available.                                     |                           |
| <b>13. Disposal considerations</b>                       |  |                           |
| <b>Disposal instructions</b>                             | Not available                                      |                           |
| <b>Local disposal regulations</b>                        | Not available.                                     |                           |
| <b>Hazardous waste code</b>                              | Not regulated.                                     |                           |
| <b>Waste from residues / unused products</b>             | Not available.                                     |                           |
| <b>Contaminated packaging</b>                            | Not available.                                     |                           |
| <b>14. Transport information</b>                         |  |                           |
| <b>DOT</b>   |  |                           |
| <b>UN number</b>   | UN1210   |                           |
| <b>UN proper shipping name</b>                           | Printing ink, flammable (Ethanol)                  |                           |
| <b>Transport hazard class(es)</b>                        | 3  |                           |
| <b>Subsidiary class(es)</b>                              | Not available.                                     |                           |
| <b>Packing group</b>                                     | III  |                           |
| <b>Special precautions for user</b>                      | Not available.                                     |                           |
| <b>Labels required</b>                                   | Not available.                                     |                           |
| <b>IATA</b>  |  |                           |
| <b>UN number</b>   | UN1210   |                           |
| <b>UN proper shipping name</b>                           | Printing ink, flammable (Ethanol)                  |                           |

|   |  |
|---|--|
| <b>Transport hazard class(es)</b>   | 3  |
| <b>Subsidiary class(es)</b>   | Not available.   |
| <b>Packaging group</b>  | III  |
| <b>Environmental hazards</b>  | Not available.   |
| <b>Labels required</b>  | Not available.   |
| <b>ERG Code</b>   | Not available.   |
| <b>Special precautions for user</b>                                       | Not available.   |
| <b>IMDG</b>   |  |
| <b>UN number</b>  | UN1210   |
| <b>UN proper shipping name</b>  | Printing ink, flammable (Ethanol)  |
| <b>Transport hazard class(es)</b>   | 3  |
| <b>Subsidiary class(es)</b>   | Not available.   |
| <b>Packaging group</b>  | III  |
| <b>Environmental hazards</b>  | Not available.   |
| <b>Marine pollutant</b>   |  |
| <b>Labels required</b>  | Not available.   |
| <b>EmS</b>  | Not available.   |
| <b>Special precautions for user</b>                                       | Not available.   |
| <b>Section 15 - Regulatory Information</b>                                |  |
| <b>US federal regulations</b>   | US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA. |
| <b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>      | Not regulated.   |
| <b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b> | Not on regulatory list.  |
| <b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>                     | Not on regulatory list.  |
| <b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>        |  |
| <b>Hazard categories</b>  | Immediate Hazard – No.<br>Delayed Hazard – No.<br>Fire Hazard – Yes.<br>Pressure Hazard – No.              |

|   |  |
|---|--|
|   | Reactivity Hazard – No.  |
| <b>SARA 302 Extremely hazardous substance</b>   | No.  |
| <b>SARA 311/312 Hazardous chemical</b>  | No.  |
| <b>US state regulations</b>   |  |
| <b>US. Massachusetts RTK - Substance List</b>   | Ethanol (CAS 64-17-5)  |
| <b>US. New Jersey Worker and Community Right-to-Know Act</b>  | Not on regulatory list.  |
| <b>US. Pennsylvania RTK - Hazardous Substances</b>  | Ethanol (CAS 64-17-5)  |
| <b>US. Rhode Island RTK</b>   | Ethanol (CAS 64-17-5)  |
| <b>US - California Proposition 65 - Carcinogens &amp; Reproductive Toxicity (CRT): Listed substance</b> | Not on regulatory list.  |
| <b>Section 16 - Other Information</b>   |  |
| <b>Issue date</b>   | 22-March-2017  |
| <b>Revision date</b>  | -  |
| <b>Version #</b>  | 01   |
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