


## 1 - Identification

|                                      |  |
|--------------------------------------|--|
| <b>Product identifier</b>            | <b>HydraJET® 2020Y</b>   |
| <b>Other means of identification</b> | Not available.   |
| <b>Synonym(s)</b>                    | 2020 yellow water-based ink  |
| <b>Recommended use</b>               | Inkjet Printing  |
| <b>Recommended restrictions</b>      | None Known.  |
| <b>Issue date</b>                    | 5-May-2016   |
| <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>        | Not classified.  |
| <b>Health hazards</b>          | Mild skin irritation (category 3), H316<br>Eyes irritation (category 2B), H320<br>Specific target organ toxicity - single exposure (Category 3),<br>Respiratory system, H335       |
| <b>Label elements</b>          |   |
| <b>Signal word</b>             | Warning  |
| <b>Hazard statement</b>        | H316- Causes mild skin irritation.<br>H320- Causes eye irritation<br>H335- May cause respiratory irritation  |
| <b>Precautionary statement</b> |  |
| <b>Prevention</b>              | P261- Avoid breathing vapours<br>P264- Wash with plenty of water thoroughly after handling<br>P280- Wear protective gloves/ protective clothing/eyes<br>protection/face protection |
| <b>Response</b>                | P302+P305+ P337+P352 : If on Skin/in eyes: Wash with plenty of<br>water<br>P312: Call a poison center/doctor if you feel unwell.   |

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| <b>Storage</b>   | P403 + P235 - Store in a well-ventilated place. Keep cool.   |          |
| <b>Disposal</b>  | Offer surplus and non-recyclable solutions to a licensed disposal company  |          |
| <b>Environmental hazards</b>                               | Not available  |          |
| <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      |
| 2-pyrrolidone  | 616-45-5   | <5       |
| 1,2-hexanediol   | 6920-22-5  | <20      |
| Water-based direct dye                                     | Proprietary  | <5       |
| <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.  |          |
| <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, if needed.  |          |
| <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, if needed. |          |
| <b>Most important symptoms/ effects, acute and delayed</b> | Not available.   |          |
| <b>5. Fire-fighting measures</b>                           |  |          |
| <b>FLASH POINT:</b>  | >200 °F (>93.3 °C); Closed Cup   |          |
| <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.  |          |

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| <b>Special protective equipment and precautions for firefighters</b>         | Not available.   |
| <b>Fire-fighting equipment/instructions</b>                                  | Not available.   |
| <b>6. Accidental release measures</b>  |  |
| <b>Personal precautions, protective equipment and emergency procedures</b>   | May be irritant if contact with skin.<br>Do not touch or walk through spilled material. Ensure adequate ventilation. Remove all sources of ignition.<br>Use personal protective equipment to minimize exposure to skin and eye. In the case of vapor formation use a respirator with an approved filter. |
| <b>Environmental precautions</b>   | Do not flush into surface water or sanitary sewer system.  |
| <b>Methods and materials for containment and cleaning up</b>                 | Not available.   |
| <b>7. Handling and storage</b>   |  |
| <b>Precautions for safe handling</b>   | Avoid contact with skin, eyes. Use with adequate ventilation.<br>Wear personal protective equipment.   |
| <b>Conditions for safe storage, including any incompatibilities</b>          | Keep containers tightly closed in a dry, cool and well-ventilated place.   |
| <b>8. Exposure controls/personal protection</b>                              |  |
| <b>Occupational exposure limits</b>  |  |
| <b>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR1910.1000)</b>      | Not classified.  |
| <b>US. ACGIH Threshold Limit Values</b>                                      | Not classified.  |
| <b>US. NIOSH: Pocket Guide to Chemical Hazards</b>                           | Not classified.  |
| <b>Biological limit values</b>   | No biological exposure limits noted for the ingredient(s).   |
| <b>Appropriate engineering controls</b>                                      | Not available.   |
| <b>Individual protection measures, such as personal protective equipment</b> |  |
| <b>Eye/face protection</b>   | Wear safety glasses; chemical goggles (if splashing is possible).<br>Eye wash fountain and emergency showers are recommended.  |
| <b>Skin protection</b>   |  |
| <b>Hand protection</b>   | Not available.   |

|   |   |
|---|---|
| <b>Other</b>  | Wear appropriate chemical resistant clothing.<br>Wear appropriate chemical resistant gloves.  |
| <b>Respiratory protection</b>                       | Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.  |
| <b>Thermal hazards</b>                              | Not available.  |
| <b>General hygiene considerations</b>               | Do not get this material in contact with skin. Avoid contact with skin, eyes and clothing.<br>When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.<br>Launder contaminated clothing before reuse. |
| <b>9. Physical and chemical properties</b>          |   |
| <b>Appearance</b>                                   | Yellow 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>      | >90°C   |
| <b>Flash point</b>                                  | >200 °F (>93.3 °C); Closed Cup  |
| <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>  | Soluble in water.   |                     |
| <b>Partition coefficient: n-octanol/water</b>                                       | Not available.  |                     |
| <b>Auto-ignition temperature</b>  | Not available.  |                     |
| <b>Decomposition temperature</b>  | Not available.  |                     |
| <b>Viscosity (cPs)</b>  | Not available.  |                     |
| <b>10. Stability and reactivity</b>   |   |                     |
| <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>2-pyrrolidone (CAS 616-45-5)</b>   |   |                     |
| Oral  |   |                     |
| <b>LD50</b>   | Rat   | 5.000mg/kg          |
| <b>Skin corrosion/irritation</b>  | Skin Contact: May cause skin irritation.<br>Skin Absorption: May be harmful if absorbed through the skin.                       |                     |
| <b>Serious eye damage/eye irritation</b>  | Eye Contact: May cause eye irritation.<br>Inhalation: Not available<br>Ingestion: May be harmful if swallowed with large amount |                     |
| <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. |

## 12. Ecological information

### Aquatic toxicity

#### Ecotoxicity

| Components | Species | Test Results |
|------------|---------|--------------|
|------------|---------|--------------|

#### 2-pyrrolidone (CAS 616-45-5)

#### Aquatic

|   |                                 |                           |
|---|---------------------------------|---------------------------|
| Fish                                    | LC50 Danio rerio (zebra fish)   | 4,600 -10,000 mg/l - 96 h |
| Daphnia and other aquatic invertebrates | EC50 Daphnia magna (Water flea) | > 500 mg/l - 48 h         |

**Persistence and degradability** Not available.

**Bioaccumulative potential** Not available.

**Partition coefficient n-octanol / water (log Kow)** Not available.

**Mobility in soil** Not available.

**Other adverse effects** Not available.

## 13. Disposal considerations

**Disposal instructions** Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Ensure collection and disposal with an appropriately licensed waste contractor.

**Local disposal regulations** Not available.

**Hazardous waste code** Not regulated.

**Waste from residues / unused products** Not available.

**Contaminated packaging** Not available.

#### **14. Transport information**

##### **DOT**

**UN number** Not classified.

**UN proper shipping name** Not dangerous good.

**Transport hazard class(es)** Not classified.

**Subsidiary class(es)** Not classified.

**Packing group** Not classified.

**Special precautions for user** Not available.

**Labels required** Not available.

##### **IATA**

**UN number** Not classified.

**UN proper shipping name** Not dangerous good

**Transport hazard class(es)** Not classified.

**Subsidiary class(es)** Not classified.

**Packaging group** Not classified.

**Environmental hazards** No

**Labels required** Not available.

**ERG Code** Not available.

**Special precautions for user** Not available.

##### **IMDG**

**UN number** Not classified.

**UN proper shipping name** Not dangerous good

**Transport hazard class(es)** Not classified.

**Subsidiary class(es)** Not classified.

**Packaging group** Not classified.

**Environmental hazards**

**Marine pollutant**

No

**Labels required**

Not available.

**EmS**

Not available.

**Special precautions for user**

Not available.

**Section 15 - Regulatory Information**

**US federal regulations**

US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not on regulatory list.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not on regulatory list.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Immediate Hazard – No.  
Delayed Hazard – No.  
Fire Hazard – No.  
Pressure Hazard – No.  
Reactivity Hazard – No.  
SARA 302 Extremely hazardous substance-No.  
SARA 311/312  
Hazardous chemical-No.

**US state regulations**

**US. Massachusetts RTK - Substance List**

Not available.

**US. New Jersey Worker and Community Right-to-Know Act**

Not on regulatory list.

**US. Pennsylvania RTK - Hazardous Substances**

Not on regulatory list.



**US. Rhode Island RTK** Not on regulatory list.

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance** Not on regulatory list.

### Section 16 - Other Information

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**Version #** 04

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