


1 - Identification

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| Product identifier | HydraJET®2016K |
| Other means of identification | Not available. |
| Synonym(s) | 2016 Black water-based ink |
| Recommended use | Inkjet Printing |
| Recommended restrictions | None Known. |
| Issue date | 9-Jun-2015 |
| Company identification | MYLAN GROUP Long Duc Industrial Park Tra Vinh City, Tra Vinh Province, Vietnam Tel. +84-294-3846-997 Fax +84-294-3846-998 |

2 - Hazard(s) identification

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| Physical hazards | Not classified. |
| Health hazards | Mild skin irritation (category 3), H316 Eyes irritation (category 2B), H320 Acute toxicity, Oral (Category 5), H303 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 |
| Label elements |  |
| Signal word | Warning |
| Hazard statement | H316- Causes mild skin irritation. H320- Causes eye irritation H303- May be harmful if swallowed. H335- May cause respiratory irritation |
| Precautionary statement | |

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| Prevention | P261- Avoid breathing vapours P264- Wash with plenty of water thoroughly after handling P280- Wear protective gloves/ protective clothing/eyes protection/face protection | |
| Response | P302+P305+ P337+P352 : If on Skin/in eyes: Wash with plenty of water P312: Call a poison center/doctor if you feel unwell. | |
| Storage | P403 + P235 - Store in a well-ventilated place. Keep cool. | |
| Disposal | Offer surplus and non-recyclable solutions to a licensed disposal company | |
| Environmental hazards | Not available | |
| 3 - Composition/information on ingredients | | |
| Mixtures | | |
| Chemical name | CAS Number | % |
| Water | 7732-18-5 | >65 |
| 1,2 hexanediol | 6920-22-5 | <15 |
| Diethylene glycol | 111-46-6 | <10 |
| Carbon Black | Proprietary | <5 |
| 4. First-aid measures | | |
| Inhalation | Move person to fresh air immediately. If symptoms persist, get immediate medical attention. | |
| Skin contact | In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Wash clothing separately before reuse. | |
| Eye contact | In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention, if needed. | |
| Ingestion | 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. Get medical attention, if needed. | |
| Most important symptoms/ effects, acute and delayed | Not available. | |
| 5. Fire-fighting measures | | |
| FLASH POINT: | >200 °F (>93.3 °C); Closed Cup | |
| Suitable extinguishing media | Suitable extinguishing media: sand, carbon dioxide (CO ₂) or dry chemical. | |

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| Unsuitable extinguishing media | Not available. |
| Specific hazards arising from the chemical | Not applicable. |
| Special protective equipment and precautions for firefighters | Not available. |
| Fire-fighting equipment/instructions | Not available. |
| 6. Accidental release measures | |
| Personal precautions, protective equipment and emergency procedures | Not available. |
| Environmental precautions | Do not flush into surface water or sanitary sewer system. |
| Methods and materials for containment and cleaning up | Not available. |
| 7. Handling and storage | |
| Precautions for safe handling | Avoid contact with skin, eyes. Use with adequate ventilation. Wear personal protective equipment. |
| Conditions for safe storage, including any incompatibilities | Keep containers tightly closed in a dry, cool and well-ventilated place. |
| 8. Exposure controls/personal protection | |
| Occupational exposure limits | |
| US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR1910.1000) | Not classified. |
| US. ACGIH Threshold Limit Values | Not classified. |
| US. NIOSH: Pocket Guide to Chemical Hazards | Not classified. |
| 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

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| Eye/face protection | Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended. |
| Skin protection | |
| Hand protection | Not available. |
| Other | Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves. |
| Respiratory protection | Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment. |
| Thermal hazards | Not available. |
| General hygiene considerations | Do not get this material in contact with skin. Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse. |

9. Physical and chemical properties

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| Appearance | Black liquid. |
| Odor | Not available. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point; | Not available. |
| Initial boiling point and boiling range | >90°C |
| Flash point | >200 °F (>93.3 °C); Closed Cup |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower(%) | Not available. |

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| Explosive limit - upper(%) | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | Soluble in water. |
| Partition coefficient: n-octanol/water | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity (cPs) | Not available. |

10. Stability and reactivity

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| Reactivity | Not available. |
| Chemical stability | Stable at normal conditions. |
| Possibility of hazardous reactions | None known. |
| Conditions to avoid | Not available. |
| Incompatible materials | Not available. |
| Hazardous decomposition products | Not available. |

11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics Not available.

Information on toxicological effects

Acute toxicity value

| Components | Species | Test results |
|-------------------------------------|---------|--------------|
| Diethylene glycol (CAS 111-46-6) | | |
| Oral | | |
| LD50 | Rat | 12.565mg/kg |
| | Human | 1.000mg/kg |

Dermal

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|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------|
| LD50 | Rabbit | 11.890mg/kg |
| Skin corrosion/irritation | Skin Contact: May cause skin irritation. Skin Absorption: May be harmful if absorbed through the skin. | |
| Serious eye damage/eye irritation | Eye Contact: May cause eye irritation. Inhalation: Not available Ingestion: May be harmful if swallowed with large amount | |
| Respiratory sensitization | Based on available data, the classification criteria are not met. | |
| Skin sensitization | Based on available data, the classification criteria are not met. | |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. | |
| Carcinogenicity | Based on available data, the classification criteria are not met. | |
| Specific target organ toxicity - single exposure | Based on available data, the classification criteria are not met. | |
| Specific target organ toxicity - repeated exposure | Based on available data, the classification criteria are not met. | |
| Aspiration hazard | Based on available data, the classification criteria are not met. | |
| 12. Ecological information | | |
| Aquatic toxicity | | |
| Ecotoxicity | | |
| Components | Species | Test Results |
| Diethylene glycol (CAS 111-46-6) | | |
| Aquatic | | |
| Fish | LC50 Pimephales promelas (fathead minnow) | 75.200 mg/l - 96 h |
| | LC50 Carassius auratus (goldfish) | 5.000 mg/l - 24 h |
| Daphnia and other aquatic invertebrates | EC50 Daphnia magna (Water flea) | > 10.000 mg/l - 24 h |
| Persistence and degradability | Not available. | |
| Bioaccumulative potential | Not available. | |
| Partition coefficient n-octanol / water (log Kow) | Not available. | |

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| 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 |

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| 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 | Not available |
| 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

Issue date 9-June-2015

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Version # 04

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