


1 - Identification

Product identifier	HydraJET® 2020Y
Other means of identification	Not available.
Synonym(s)	Not available.
Recommended use	Inkjet Printing
Recommended restrictions	None Known.
Issue date	05-May-2016
Company identification	MYLAN GROUP Long Duc Industrial Park Tra Vinh City, Tra Vinh Province, Vietnam Tel. 84-74-3846-997 Fax 84-74-3846-998

2 - Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
OSHA hazard(s)	Not classified.
Label elements	
Signal word	Warning
Hazard statement	H316+H320+H303- Causes skin and eyes irritant. May be harmful if swallowed.
Precautionary statement	
Prevention	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	Not classified
Hazard(s) not otherwise classified (HNOC)	Not classified.
Environmental hazards	Not classified.

3 - Composition/information on ingredients

Mixtures

Chemical name	CAS Number	%
Water	7732-18-5	≥60%
2-pyrrolidone	616-45-5	<5%
1,2-hexanediol	6920-22-5	<20
Water-based direct dye	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.
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	May be irritant if contact with skin. Do not touch or walk through spilled material. Ensure adequate ventilation. Remove all sources of ignition. Use personal protective equipment to minimize exposure to skin and eye. In the case of vapor formation use a respirator with an approved filter.
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 Not classified.

Contaminants (29 CFR1910.1000)

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

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

Appearance	Yellow 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.
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)	2.0 - 4.0
10. Stability and reactivity	
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
2-pyrrolidone (CAS 616-45-5)		
Oral		
LD50	Rat	5.000mg/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
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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