

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	HydraJET®2030R
Synonym(s)	Red ink
Registration number REACH	Not applicable (mixture)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use	Ink for inkjet printing
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1.3. Details of the supplier of the safety data sheet

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
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1.4. Emergency telephone number

Phone number:	+84-294-3846-997
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Section 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP):

Physical hazards	Not classified.
Health hazards	Not classified.

2.2. Label elements

Labeling according to Regulation (EC) No 1272/2008 (CLP):

Pictograms	No symbol.
Signal word	Not available.
Hazard statements	Not classified.
Precautionary statements	
Prevention	Not available.
Response	Not available.
Storage	Store in dry- cool place.

Disposal Not classified.

2.3. Other hazards

PBT Substances None

vPvB Substances: None

Other hazards No other hazards

Section 3: Composition/information on ingredients

3.1. Substance No

3.2. Mixtures

Hazardous Components (Chemical Name)/ REACH Registration No.	CAS Number	Concentration (%)	EC No./ EC index No	Classification
Water	7732-18-5	>60	231-791-2	Not Classified
Glycerol	56-81-5	<20	200-289-5	Not Classified
Propylene glycol	57-55-6	<10	200-338-0	Not Classified
1,2 hexanediol	6920-22-5	<3	230-029-6	Eye Irrit. 2,H319
Red food grade dye	Proprietary	<7	NA	Not Classified

Section 4: First-aid measures

4.1. Description of first aid measures

In case of:

Inhalation Not applicable.

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.

4.2. Most important symptoms/ effects, acute and delayed

See section 11

4.3. Indication of any immediate medical attention and special treatment needed

No special treatment needed, treat symptomatically.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media sand, carbon dioxide (CO₂) or dry chemical.

Unsuitable extinguishing media Not available.

5.2. Special hazards arising from the substance or mixture

Not available.

5.3. Advice for firefighters

Special protective equipment and precautions for firefighters Not applicable.

Fire-fighting equipment/instructions Not available.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel Not available.

6.1.2. For emergency responders 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.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Not available.

6.4. Reference to other sections

For further and detailed information see section 8 and 13.

Section 7. Handling and storage

7.1 Precautions for safe handling Avoid contact with skin, eyes. Use with adequate ventilation.
Wear personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a dry, cool and well-ventilated place.

Section 8. Exposure controls/personal protection

8.1 Control parameters National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Notation	Identifier	TWA (ppm)	TWA (mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Source
IE	Glycerol	56-81-5		OELV		10			S.I. No. 619 of 2001
IE	Propylene glycol	57-55-6		OELV	150	470 10			S.I. No. 619 of 2001
	1,2 hexanediol	6920-22-5							Data are not available

Relevant DNELs/DMELs/PNECs and other threshold levels

• human health values					
	End point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Glycerol	DNEL	56 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Propylene glycol	DNEL	168 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
1,2 hexanediol	DNEL	17.5 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
	DNEL	123 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

• environmental values			
	End point	Threshold level	Environmental compartment
Glycerol	PNEC	0.885 mg/L	freshwater
	PNEC	0.088 mg/L	marine water
	PNEC	1 000 mg/L	sewage treatment plant (STP)
	PNEC	3.3 mg/kg	freshwater sediment
	PNEC	0.63 mg/kg	soil
Propylene glycol	PNEC	50 mg/kg	soil
	PNEC	260 mg/l	freshwater
	PNEC	26 mg/L	marine water
	PNEC	20 000 mg/L	sewage treatment plant (STP)
	PNEC	572 mg/kg	Fresh water sediment
1,2 hexanediol	PNEC	no hazard identified	

8.2 Exposure controls

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



Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing.

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.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Red liquid
Odor	Characteristic
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point;	Not available.
Initial boiling point and boiling range	>90°C
Flash point	>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)	Not available.

9.2 Other information	Not available.	
Section 10. Stability and reactivity		
10.1 Reactivity	Not available.	
10.2 Chemical stability	Stable at normal conditions.	
10.3 Possibility of hazardous reactions	None known.	
10.4 Conditions to avoid	Not available.	
10.5 Incompatible materials	Not available.	
10.6 Hazardous decomposition products	Hazardous combustion products: see section 5	
Section 11. Toxicological information		
11.1 Information on toxicological effects		
Acute toxicity value		
Components	Species	Test results
Propylene glycol (CAS 57-55-6)		
Dermal (LD50)	Rabbit	20.800 mg/kg
Oral (LD50)	Rat (male and female)	20.000 mg/kg
Glycerol (CAS 56-81-5)		
Oral (LD50)	Rat	12600 mg/kg
Dermal (LD50)	Rabbit	10000mg/kg
1,2 hexanediol (6920-22-5)		
Oral (LD50)	Rat - male	5.339 - 6.470 mg/kg
	Rat - female	6.166 mg/kg
Skin corrosion/irritation	Not available.	
Serious eye damage/eye irritation	Eye Contact: Not available. Inhalation: Not available. Ingestion: Not available.	
Respiratory sensitization	Not available.	
Skin sensitization	Not available.	
Germ cell mutagenicity	Not available.	
Carcinogenicity	Not available.	
Specific target organ toxicity - single exposure	Not available.	
Specific target organ toxicity - repeated exposure	Not available.	
Aspiration hazard	Not available.	
Section 12. Ecological information		

12.1 Toxicity

Aquatic toxicity

Components		Species	Test Results
Glycerol (CAS 56-81-5)			
Fish		Salmo gairdneri	54,000 mg/L – 96h
Propylene glycol (CAS 57-55-6)			
Fish	NOEC	Pimephales promelas (fathead minnow)	52.930 mg/l - 96 h
Daphnia and other aquatic invertebrates	EC50 NOEC	Daphnia (water flea)	> 10.000 mg/l - 48 h 13.020 mg/l - 48 h
1,2 hexanediol (CAS 6920-22-5)			
Fish	LC50	Oncorhynchus mykiss (rainbow trout)	> 1,000 mg/l
Daphnia and other aquatic invertebrates	EC10	Freshwater algae	> 110 mg/L - 48h
Microorganisms	EC0	Activated sludge	>1000 mg/L – 3h

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB

Not available.

assessment

12.6 Other adverse effects

Not available.

Section 13. Disposal considerations

13.1 Waste treatment methods

Not available

Sewage disposal-relevant information

Not available

Contaminated packaging

Not available.

13.2 Relevant provisions relating to waste

Not available

13.3 Remarks

Not available

Section 14. Transport information

14.1 UN number

Not classified.

14.2 UN proper shipping name

Not dangerous good.

Hazardous ingredients

14.3 Transport hazard class(es)

Not classified.

14.4 Packing group Not classified.

14.5 Environmental hazards Not classified.

14.6 Special precautions for user Not classified.

14.7 Transport in bulk according to Not applicable

Annex II of MARPOL and the IBC

Code

14.8 Information for each of the UN Model Regulations

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number Not classified.

UN proper shipping name Not dangerous good.

Transport hazard class(es) Not classified.

Packing group Not classified.

Danger labels Not classified.

• International Maritime Dangerous Goods Code (IMDG)

UN number Not classified.

UN proper shipping name Not dangerous good.

Transport hazard class(es) Not classified.

Packing group Not classified.

Danger labels Not classified.

• International Civil Aviation Organization (ICAO-IATA/DGR)

UN number Not classified.

UN proper shipping name Not dangerous good.

Transport hazard class(es) Not classified.

Packing group Not classified.

Danger labels Not classified.

Section 15 - Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Guidance

Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Section 16 - Other Information**Issue date**

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4.2

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